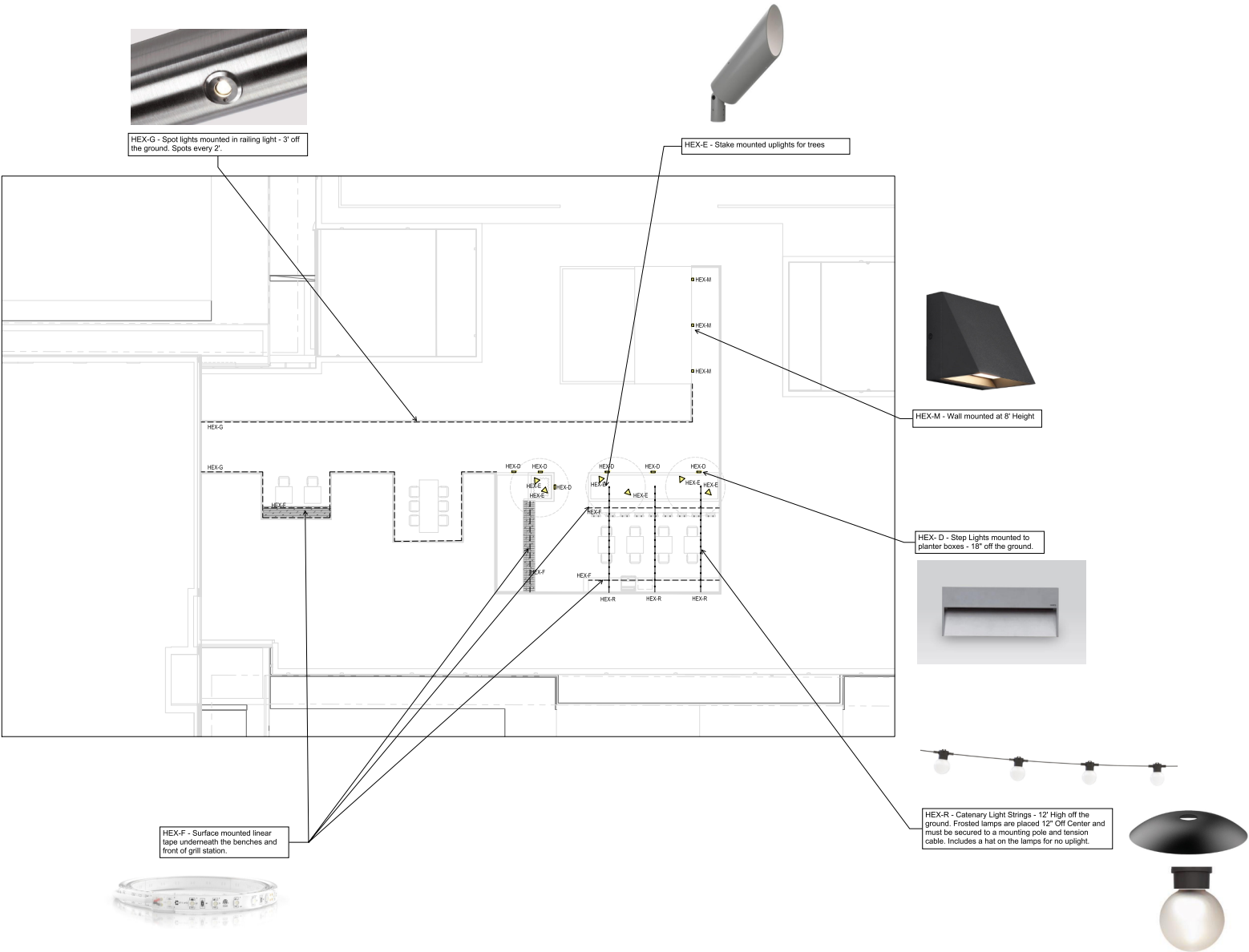
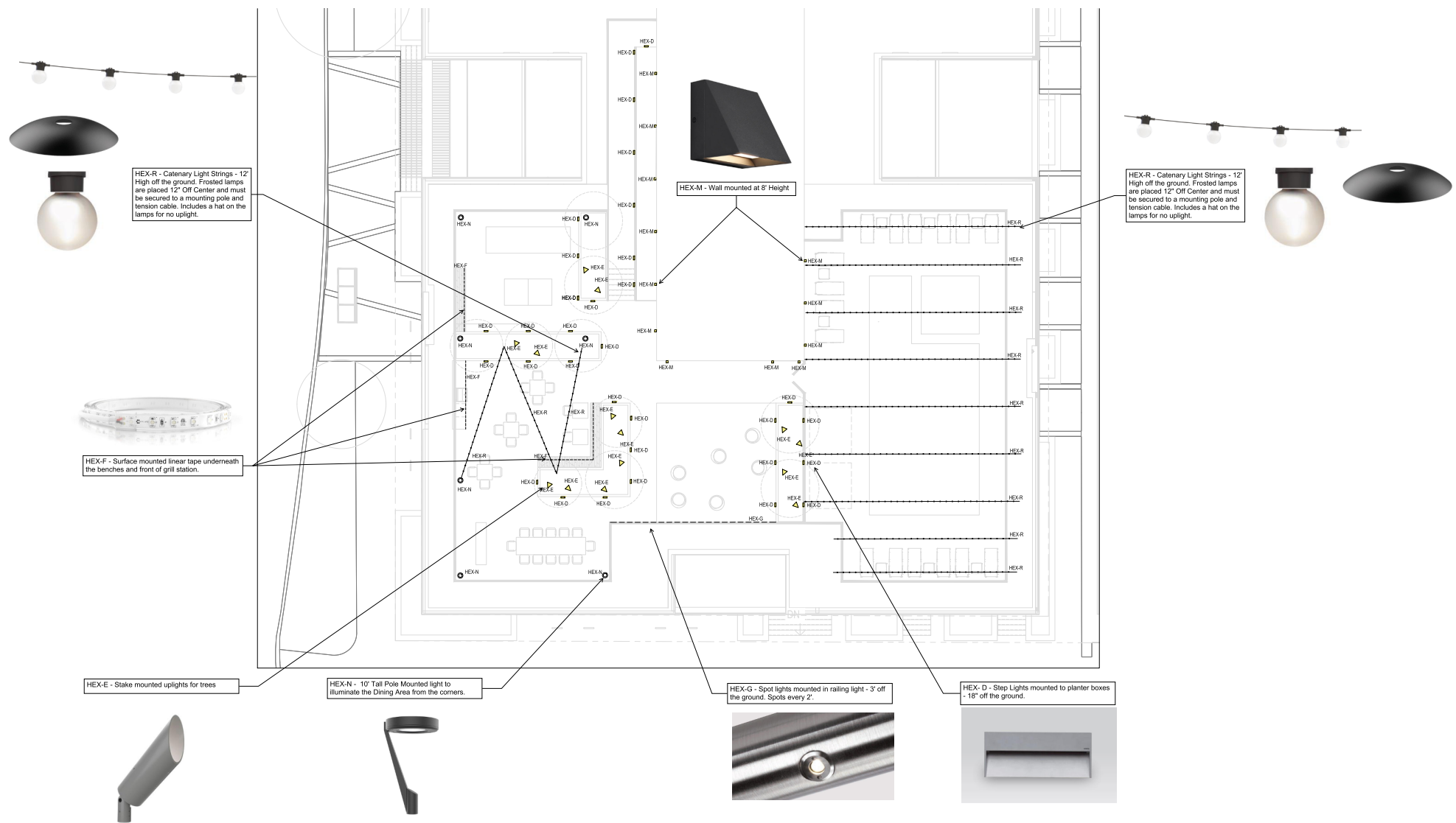


LIGHTING CONCEPT - 6 STORY ROOF



LIGHTING CONCEPT - 12 STORY ROOF



Date
 3/06/2023
 Scale
 = 100'0"
 Project No. & Title
 CORE Johnson Bassett
 Drawn By
 D
 Checked By
 K

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Hartranft Lighting Design
491 Hawthorne Ln. Ste.
110-265
Charlotte, NC 28204
(240) 731-1058

No.	Date	Revision

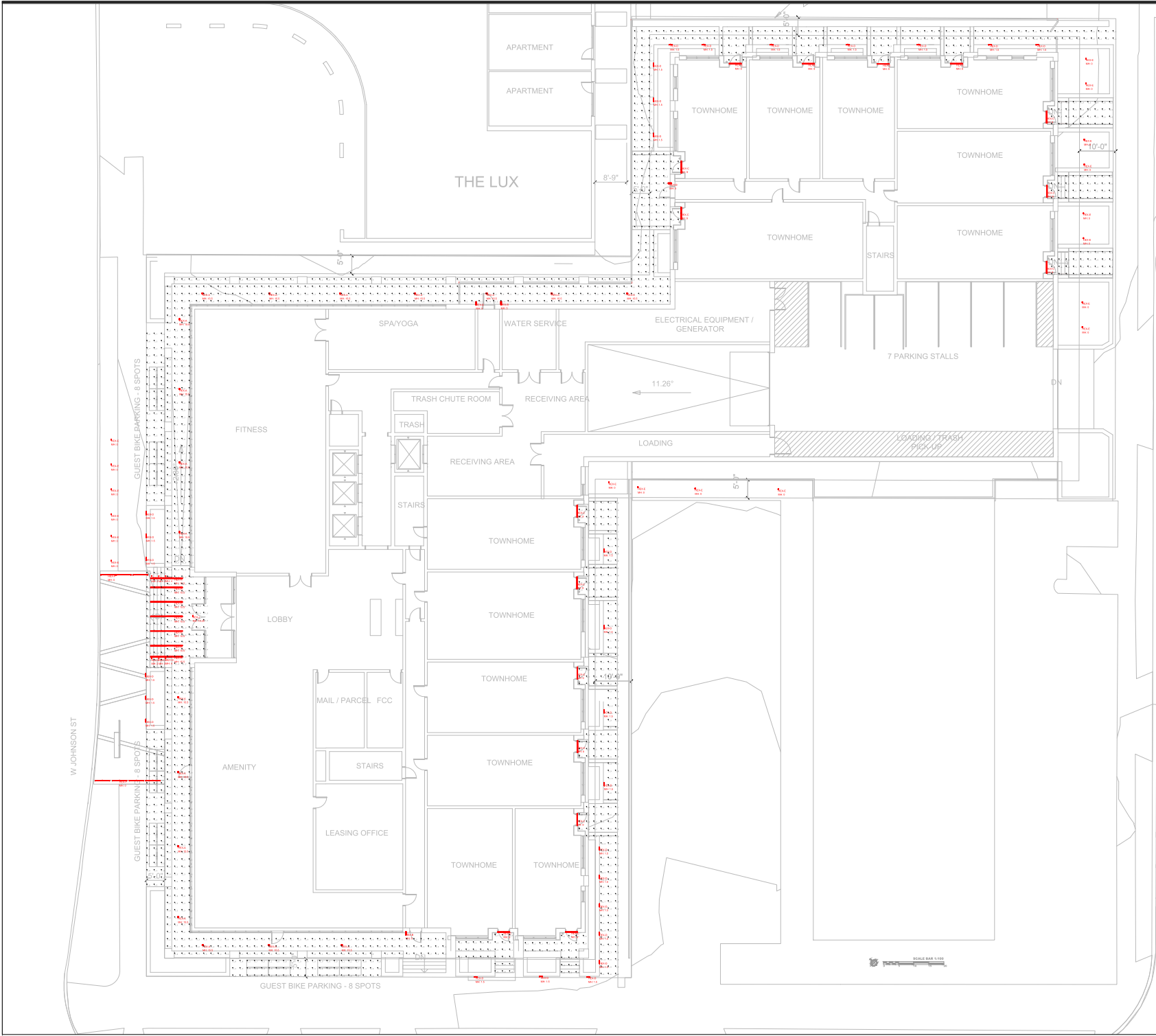
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Date
03/06/2023
Scale
1" = 100'-0"
Project No. & Title
CORE Johnson Bassett
Drawn By
SD
Checked By
JK

SITE LIGHTING
PHOTOMETRICS

Sheet:

LT-100.1



Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	18	HEXA_EV04 30 10 AR MWD LD	Single	EV04 30 10 AR MWD LD	HEX-A	0.900	852	8.8	158.4
	4	AT6510-BK-HEX-B Opt2	Single	AT6510-BK-HEX-B Opt2	HEX-B	0.900	1104	20.6	82.4
	18	OW2404-L35K-H	Single	OW2404-L35K-H	HEX-C	0.900	1952	39.5	632
	28	SG240W 14	Single	SG240W 14	HEX-D	0.900	422	13.5	378
	18	LED-e66-MFL-12-1TL85922	Single	NS-LED-e66-MFL-12, AR-LED-TR-e66-MFL-12, AR-LED-RM-e66-MFL-12, DS-LED-e66-MFL-12	HEX-E	0.900	458	8.77	121.86
	7	LL18WET-T-30K_IESNA2002	Single	LL18WET-T-30K	HEX-F	0.900	484	9.1	42.7
	6	LULF30K795	Single	LULF30K795	HEX-G	0.900	94	1.95	11.7
	14	ACL35TALSALUNE	Single	ACL35TALSALUNE	HEX-H	0.900	2261	19	266
	1	Rosco-Image Spot-3000K-Medium	Single		HEX-J	0.900	479	29.26	29.26

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Bike Stall_S	Illuminance	Fc	1.65	3.1	0.3	5.50	10.33
Porch_E_1	Illuminance	Fc	3.03	9.3	0.5	6.98	18.60
Porch_E_2	Illuminance	Fc	3.05	9.3	0.5	6.10	18.60
Porch_E_3	Illuminance	Fc	2.95	9.2	0.4	7.38	23.00
Porch_S_1	Illuminance	Fc	3.38	9.5	0.1	33.60	85.00
Porch_S_2	Illuminance	Fc	3.45	8.6	0.1	34.50	86.00
Property Line_E	Illuminance	Fc	0.11	0.5	0.0	N.A.	N.A.
Property Line_N	Illuminance	Fc	0.32	1.0	0.0	N.A.	N.A.
Property Line_S	Illuminance	Fc	0.16	0.5	0.0	N.A.	N.A.
Property Line_W	Illuminance	Fc	2.48	27.8	0.0	N.A.	N.A.
Sidewalk_W	Illuminance	Fc	5.42	41.3	0.0	N.A.	N.A.
Walkway_1	Illuminance	Fc	8.04	38.4	0.1	60.40	384.00
Walkway_2	Illuminance	Fc	7.94	133.8	0.0	N.A.	N.A.
Walkway_3	Illuminance	Fc	0.80	0.0	0.0	N.A.	N.A.
Walkway_4	Illuminance	Fc	4.13	42.4	0.0	N.A.	N.A.

GENERAL NOTES:
EXTERIOR LIGHTS HEX-D, E, F, G, J, K, AND L TO BE CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.

TYPE HEX-A, B, C, AND H WILL BE CONTROLLED SEPERATELY THAN THE TIMECLOCK.

GENERAL CALCULATION NOTES:
AVERAGE REFLECTANCES = 50% GROUND AND 50% WALLS

PROPERTY LINE ILLUMINANCE MEASURED AT 4'0 ABOVE GRADE
ALL OTHER CALCULATIONS TAKEN AT GROUND

90% LUMEN MAINTENANCE

CALCULATION DISCLAIMER:
ILLUMINANCE CALCULATIONS ARE INTENDED TO SERVE AS A VERIFICATION TOOL FOR LIGHTING DESIGN, NOT AS A GUARANTEE OF SPECIFIC ILLUMINANCE LEVELS. ALL CALCULATIONS PERFORMED BY HARTRANFT LIGHTING DESIGN, LLC ARE BASED ON STANDARDS AND METHODS APPROVED BY THE IESNA, AND PHOTOMETRY MADE AVAILABLE BY LIGHTING FIXTURE MANUFACTURERS. WHILE ALL NECESSARY STEPS HAVE BEEN TAKEN TO INSURE THE ACCURACY OF THE CALCULATIONS, ALL RESULTS ARE DIRECTLY DEPENDENT ON THE IES FORMAT PHOTOMETRIC FILE USED AS INPUT AND THE POINT-BY-POINT CAULCULATION METHOD USED BY THE SOFTWARE. COMPUTED RESULTS CAN VARY SIGNIFICANTLY (+/-20%) FROM ACTUAL LEVELS AS A RESULT OF FIELD CONDITIONS SUCH AS FINISHES AND ENVIRONMENTAL FACTORS THAT MAY AFFECT THE LIGHTING AS WELL AS HE ACCURACY OF DATA INCLUDED IN THE INPUT FILE. HARTRANFT LIGHTING DESIGN, LLC SHALL NOT BEAR RESPONSIBILITY FOR ANY DISCREPANCY BETWEEN CALCULATED LEVELS AND THOSE ULTIMATELY REALIZED UNDER FIELD CONDITIONS.



Hartranft Lighting Design
491 Hawthorne Ln. Ssa.
110-265
Charlotte, NC 28204
(240) 731-1058

No. Date Revision







Seal & Signature






Date
03/06/2023
Scale
NA
Project No. & Title
CORE Johnson Bassett
Drawn By
BD
Checked By
JK

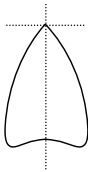
SITE LIGHTING
SCHEDULES

Sheet:

LT-100.2

<div><div><div></div><div></div></div><div><div>HARTRANFT LIGHTING DESIGN, LLC</div><div>Jess Krometis- jess@hartranftlighting.com</div><div>Paula Ziegenbein - paula@hartranftlighting.com</div></div></div>												
LUMINAIRE SCHEDULE - DESIGN PROGRESS												
PROJECT: CORE Johnson and Bassett								PROJECT #:		DATE: 03/06/2023		
GENERAL NOTES:												
1	SHOULD THE CONTRACTOR WISH TO HAVE PRODUCTS OTHER THAN THOSE SPECIFIED CONSIDERED, THE ITEMS MUST BE SUBMITTED (14) DAYS IN ADVANCE OF THE BID. FAILURE TO SUBMIT WITHIN THAT DEADLINE CONSTITUTES A GUARANTEE THAT THE SPECIFIED PRODUCTS WILL BE SUPPLIED.											
2	CONTRACTOR SHALL PROVIDE A COMPLETE LIST OF ALL LAMPS WHICH WILL BE FURNISHED ON THE PROJECT. THIS LIST SHALL BE ORGANIZED ALPHABETICALLY BY LUMINAIRE TYPE INDICATED ON THE LUMINAIRE SCHEDULE, AND INCLUDE THE MANUFACTURER AND EXACT MODEL ORDERING CODE OF EACH LAMP.											
3	THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL 10% OF ALL LAMPS LISTED AT PROJECT TURN OVER. LAMPS ARE FOR SPARE REPLACEMENT LAMPS. LIST OF SPARE LAMPS TO BE INCLUDED IN SUBMITTAL DOCUMENTATION.											
4	ALL EMERGENCY AND EXIT LIGHTING SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER											
5	0-10V DIMMING REQUIRES LOW VOLTAGE CONTROL WIRE.											
6	CONFIRM WITH ARCHITECT THE EXACT MOUNTING HEIGHT AFF											
7	CONTRACTOR MUST PROVIDE UNIT PRICING TO THE ARCHITECT- FOR EACH FIXTURE TYPE COMPLETE WITH ALL ACCESSORIES AND LAMP.											
FIXTURE TYPE	IMAGE	DESCRIPTION	LAMPING	MANUFACTURER and SERIES	CATALOG NUMBER	POWER SUPPLY/ CONTROL PROTOCOL	SYSTEM WATTS (W)	VOLTAGE (V)	APERTURE	MOUNTING	LOCATION	NOTES
EXTERIOR LIGHTING												
HEX-A		4" DIAMETER LED RECESSED DOWNLIGHT	3000K INTEGRAL LED 1000 LUMENS MEDIUM WIDE OPTICS 90 CRI	GOHAM LIGHTING EVO 4	EVO4-30/10-AR-LSS-MWD-V OLT-GZ10-90CRI	INTEGRAL LED POWER SUPPLY, 0-10V DIMMING	7.9	PER EE	4"	RECESSED	OUTSIDE CANOPY	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
HEX-B		WALL MOUNTED BACKLIT SCONCES FOR EXIT DOOR LOCATIONS WITH ADA COMPLIANCE	3000K INTEGRAL LED 1566 LUMENS 90 CRI	KUZCO LIGHTING VESTA	AT7928-BK	ELV DIMMING	31W	PER EE	5 1/8"	WALL MOUNTED	EXIT DOORS	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
HEX-C		37.25" LONG MULLION MOUNTED LINEAR LIGHT WITH FORWARD THROW	3000K INTEGRAL LED 2700 LUMENS FORWARD THROW LENS 90 CRI	VISA LIGHTING PASSAGE	OW2480-L30K(H)-VOLT-FT-FINISH	0-10V DIMMING	40W	PER EE	2 1/2"	MULLION MOUNTED	UNIT DOORS	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
HEX-D		WALL MOUNTED STEP LIGHTS MOUNTED IN PLANTERS	3000K INTEGRAL LED 420 LUMENS ASSYMETRIC FLOOD 90 CRI	SISTEMALUX LIGHTING	S6240W-FW-VOLT-FINISH-D 10	4549-0024-075-UNV-D10 0-10V DIMMING	13.5W	PER EE	11"	WALL MOUNTED	PLANTER BOXES	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. MOUNTING TO BE CONFIRMED WITH ARCHITECT. 3. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 4. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-E		STAKE MOUNTED UPLIGHT FOR TREES AND PLANTERS WITH SOFT FOCUS LENS AND 45 DEG CAP STYLE	3000K INTEGRAL LED 500 LUMENS MEDIUM FLOOD 90 CRI	BK LIGHTING	DS-LED-E80-MFL-A9-12-11-A	REMOTE 12V TRANSFORMER (MLV DIMMING)	7W	PER EE	2-1/4"	STAKE MOUNTED	TREES	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. MOUNTING TO BE CONFIRMED WITH ARCHITECT. 3. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 4. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-F		WET LISTED LED TAPE MOUNTED IN TOE KICK OF PLANTERS	3000K INTEGRAL LED 112 LUMENS PER FT 90 CRI	LUMINII LIGHTING	LL18WET-T-30K-SL68-SL68-LENGTH KMC-C CHANNEL/LENS	REMOTE LED POWER SUPPLY, ELV DIMMING	1.5W/FT	BY EE	0.59"	SURFACE MOUNTED	TOE KICK PLANTER	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. MOUNTING TO BE CONFIRMED WITH ARCHITECT. 3. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 4. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.

FIXTURE TYPE	IMAGE	DESCRIPTION	LAMPING	MANUFACTURER and SERIES	CATALOG NUMBER	POWER SUPPLY/ CONTROL PROTOCOL	SYSTEM WATTS (W)	VOLTAGE (V)	APERTURE	MOUNTING	LOCATION	NOTES
HEX-G		HANDRAIL LIGHTING SPOT LIGHTS WITH 70 DEG OPTICS	3000K INTEGRAL LED 116 LUMENS/WATT 90 CRI	WAGNER LIGHTING	LULF-30K-70-5	0-10V DIMMING	2.2W	PER EE	.63"	HANDRAIL	ENTRANCE STAIRS	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 3. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-H		SURFACE MOUNTED LINEAR STRIPS IN CANOPY SLATS	3000K INTEGRAL LED 744 LUMENS 90 CRI	A LIGHT	ACL3ST-LENGTH-LS-30-CRI- VOLT-HE-MOUNTING-FINISH -D-Q	0-10V DIMMING	2.25"	PER EE	3.75"	SURFACE MOUNTED	ENTRANCE CANOPY	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
HEX-J		YOKE MOUNTED GOBO PROJECTOR WITH 30 DEG LENS FOR CANOPY LOGO	5500K INTEGRAL LED 1300 LUMENS 80 CRI	ROSCO LIGHTING	IMAGE SPOT HT-5-B-0-MOUNTING-3 PROVIDE WITH CUSTOM ROSCO GOBO	0-10V DIMMING	45W	PER EE	7.8"	YOKE MOUNTED	ENTRANCE CANOPY	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT. 2. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-K		SURFACE MOUNTED ACCENT UPLIGHTS WITH 10 DEGREE OPTICS	3000K INTEGRAL LED 744 LUMENS 90 CRI	ECOSENSE LIGHTING	F080-1S-HO-30-90-10-FINISH -H-MOUNTING	ELV DIMMING	11.5W	PER EE	6.97"	SURFACE MOUNTED	FACADE	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT. 2. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-L		SURFACE MOUNTED LINEAR UPLIGHT FOR BUILDING FACADE WITH 9X9 GRAZING OPTICS	3000K INTEGRAL LED 560 LUMENS PER FT 90 CRI	ECOSENSE LIGHTING	L50-E-12"-10-30-90-VOLT-9X 9	ELV DIMMING	10W/FT	PER EE	12"	SURFACE MOUNTED	FACADE	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT. 2. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.



Luminaire Type:

Catalog Number:



General Illumination Round Downlight

4"



Feature Set

- Bounding Ray™ optical design
 - Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
 - 45° cutoff to source and source image
 - Fully serviceable and upgradeable lensed LED light engine
 - 70% lumen maintenance at 60,000 hours
 - 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
 - Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
 - Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
 - ENERGY STAR® certified product
 - UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

Distribution



Superior Performance*

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114

*Based on 3500K AR LSS MWD 80CRI

Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core

Downlight

Adjustable

Open Wallwash

Lensed Wallwash

Cylinder

Pinhole

Bevel

Hyperbolic

Healthcare

MRI

Surgical Suite

Patient Room

Special Applications

Dynamic

Food Service

Vandal/Tamper

Clean Room

Shower

Steam Room



A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EV04 35/25 AR MWD LSS 120 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Finish	Distribution	Voltage
EV04	27/ 2700 K	02 250 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular	MD Medium (0.9 s/mh)	MVOLT 120
	30/ 3000 K	05 500 lumens	PR Pewter	FL Flangeless	LD Matte-diffuse	MWD Medium wide (1.0 s/mh)	277
	35/ 3500 K	07 750 lumens	WTR Wheat		LS Specular	WD Wide (1.2 s/mh)	347 ^{3,4}
	40/ 4000 K	10 1000 lumens	GR Gold				
	50/ 5000 K	15 1500 lumens	WR ¹ White				
		20 2000 lumens	BR ¹ Black				
		25 2500 lumens	WRAMF ¹ White Anti-microbial				
		30 3000 lumens	TRALTB ^{1,2} RAL paint for pricing only				
		35 3500 lumens	TCPC ¹ Custom paint color				
		40 4000 lumens					
		45 4500 lumens					

Driver ⁵	Control Interface	Emergency Options	Options
GZ10 0-10V driver dims to 10%	NLT ⁹ nLight® dimming pack controls	EL ¹⁰ Emergency battery pack, 10W, with integral test switch	SF Single Fuse. Specify 120V or 277V
GZ1 0-10V driver dims to 1%	NLTER ^{3,7,11} nLight® dimming pack controls emergency circuit	ELR ¹⁰ Emergency battery pack, 10W, with remote test switch	TRW ⁸ White painted flange
EZ1 eldoLED 0-10V ECODrive. Linear dimming to 1% min.	NLTAIR2 ^{14,15} nLight® AIR enabled	ELSD ¹⁰ Emergency battery pack, 10W, with self-diagnostics, integral test switch	TRBL ⁹ Black painted flange
EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER2 ^{3,11,14} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit	ELRSD ¹⁰ Emergency battery pack, 10W, with self-diagnostics, remote test switch	FRALTB ² Flange ring only RAL color for pricing only
EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLTAIREM2 ^{3,14} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	E10WCP ¹⁰ Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	FCPC Flange custom paint color
EDXB eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to DMXR Manual .		E10WCPR ¹⁰ Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	N80 ¹² nLight® Lumen Compensation
ECOD ⁶ Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 250LLM; Max: 4000LM.		BGTD Bodine generator transfer device. Specify 120V or 277V.	GTD generator transfer device. Specify 120V or 277V
			90CRI High CRI (90+)
			CP ¹³ Chicago Plenum. Specify 120V or 277V for 5000lm and above.
			RRL RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC® product specifications. Above ceiling access required.

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190 .
CTAEV04	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC .

ORDERING NOTES

- Not available with finishes.
- Replace with applicable RAL number and finish when ready to order. See [RAL BROCHURE](#) for available color options. Not available with emergency battery pack options.
- Not available with emergency battery pack options.
- Supplied with factory installed step down transformer.
- Refer to [TECH-240](#) for compatible dimmers.
- Not available with nLight®.
- Must specify voltage.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
- 11" of plenum depth or top access required for battery pack maintenance.
- ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- Not available with ELR, HAO, or EXAB, or any nLight® AIR dimming options.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
- When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.

Optical Assembly

Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical

The luminaire shall operate from a 50 or 60 Hz ± 3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper.

Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.

Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 2").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed.

BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note:

Actual performance may differ as a result of end user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

Tables of Use

EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Logarithmic	Linear

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIR2ER	NLTAIREM2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V EC0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V EC0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOL0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2

How to Estimate Delivered Lumens in Emergency Mode
Delivered Lumens = 1.25 x P x LPW
P = Output power of emergency driver. P = 10W for PS1055CP
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

Flangeless

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.

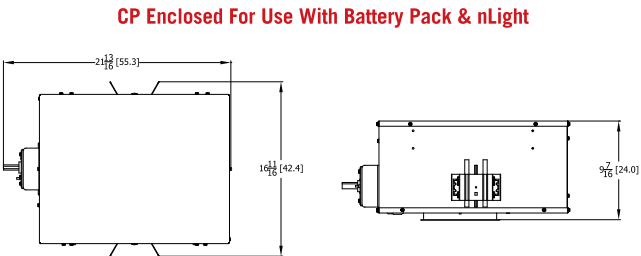
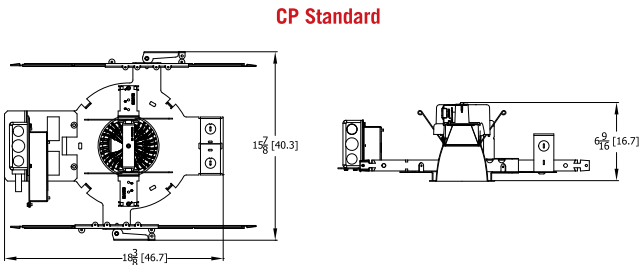
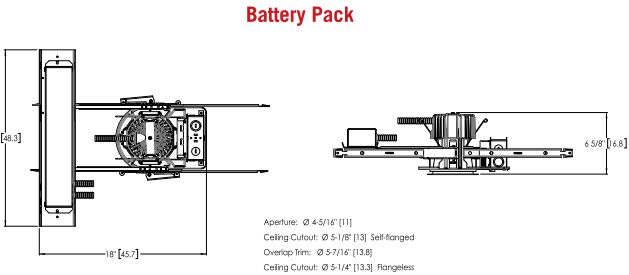
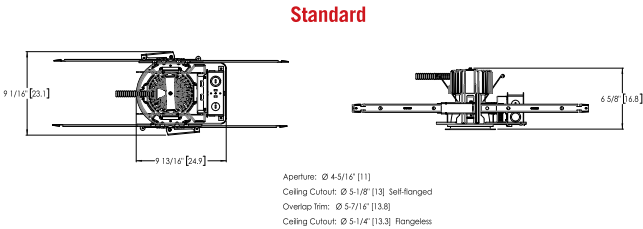


EVO with flangeless trim

DIMENSIONAL DATA

Aperture: 4-5/16" (11)Ceiling Opening: 5-1/8" (13) self-flanged

Overlap trim: 5-7/16" (13.8)5-1/4" (13.3) flangeless



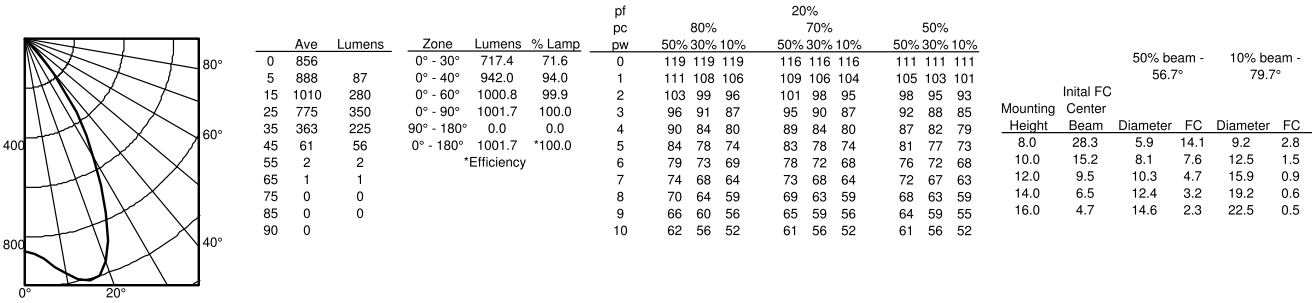


4"

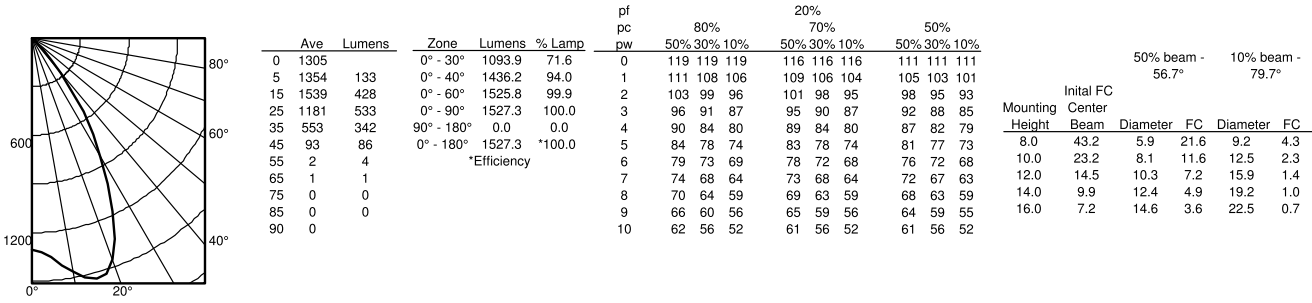
General Illumination Round Downlight

Photometry

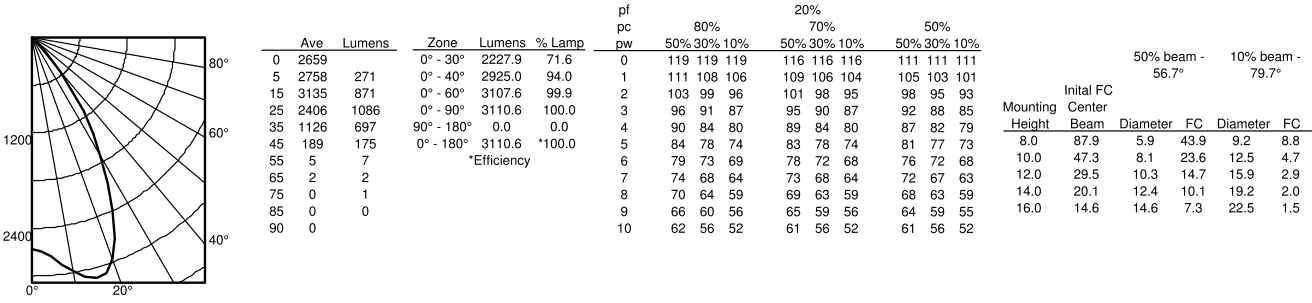
EV04 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P131



EV04 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P137



EV04 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P155



CCT/CRI Multiplier Table		
CRI	CCT	Multiplier
80	2700K	0.96
	3000K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

Distributions	
Distribution	Beam
MD	51
MWD	57
WD	73



nLight AIR

nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

nLight® AIR Control Accessories

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches

	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

nLight® AIR Control Accessories (cont.)**Occupancy Sensors (PIR/dual tech)**

	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](#).

Wall Switches

	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

Photocell Controls

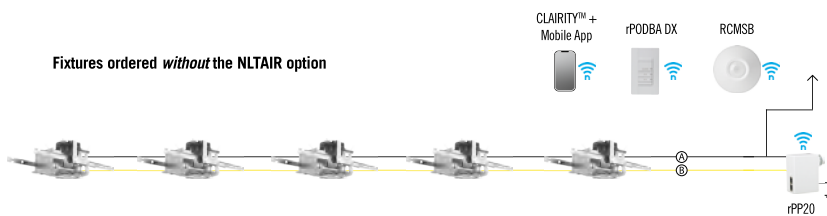
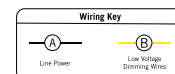
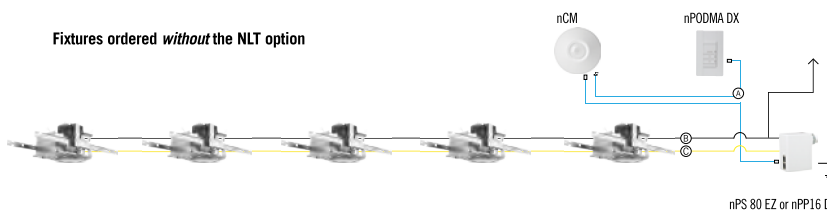
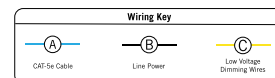
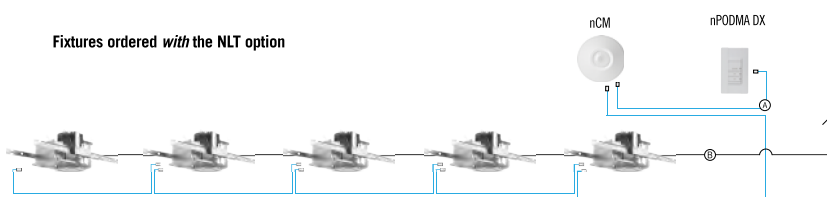
Dimming	nCM ADCX
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nLight® Wired Control Accessories (cont.)**Occupancy Sensors (PIR/dual tech)**

	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

Cat-5 Cables (plenum rated)

10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

Possibilities for nLight® AIR**Fixtures ordered *without* the NLTAIR option****Fixtures ordered *with* the NLTAIR option****Possibilities for nLight® wired****Fixtures ordered *without* the NLT option****Fixtures ordered *with* the NLT option**

VESTA
AT7928

WALL

PROJECT

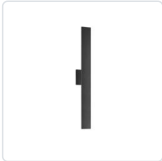


DESCRIPTION

Timeless simplicity with versatile purpose is offered with this wall sconce that measures 28 inches in length. Vesta mounts horizontally or vertically from a matching aluminum square affixed in the middle of the rectangular beam of formed aluminum. The concealed LEDs illuminate the mounting plane creating pool of light on the wall. Vesta is available in three different finishes: black or white powder coating and brushed nickel.



AT7928-BN
Brushed Nickel



AT7928-BK
Black

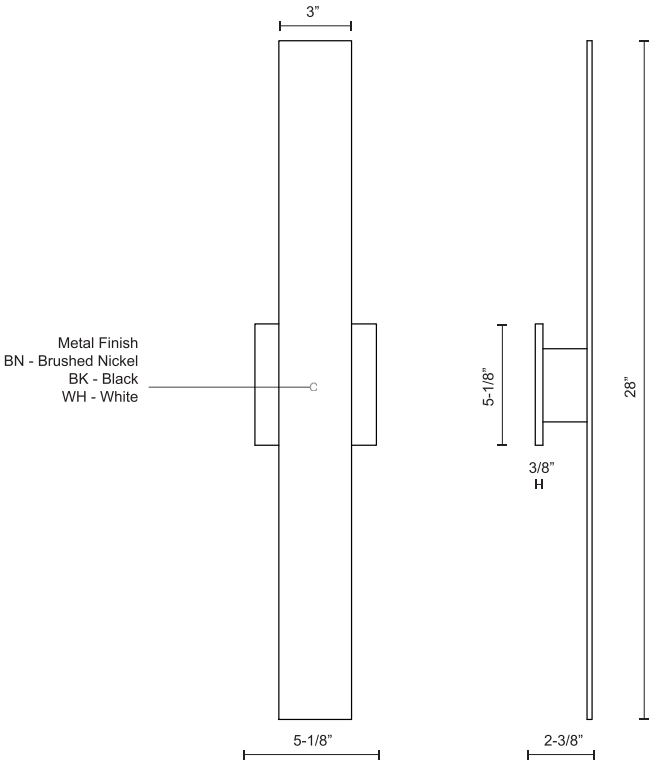


AT7928-WH
White

SPECIFICATION DETAILS

* For custom options, consult factory for details.

Fixture Dimensions	W3" x H28" x E2-3/8"
Light Source	AC LED Module
Wattage	31W
Total Lumens	2400lm
Delivered Lumens	BK-1566lm; BN-1575lm; WH-1725lm;
Voltage	120V
Color Temperature	3000K
CRI (Ra)	90CRI
Optional Color Temps	2700K - 5000K Available, Minimum Order Quantities Apply
LED Rated Life	50,000 hours
Dimming	100% - 10%, ELV Dimmer (Not Included)
Glass Details	Frosted Glass
ADA Compliant	Yes
Location	Wet
Compliance	ADA
Warranty	5 Years
Illumination Direction	Backlit
Mounting Style	All Orientation; Wall;
Canopy Dimensions	W5-1/8" x H5-1/8" x E3/8"



KUZCO

19054 28TH AVENUE
SURREY - BC V3Z 6M3
CANADA

WWW.KUZCOLIGHTING.COM

COMMENT



OW2480 PASSAGE™

Mullion Mount with Remote Power Supply


[Visalighting.com/products/Passage](https://visalighting.com/products/Passage)

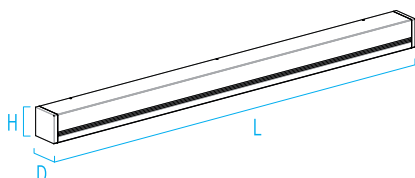
Type: Project: Location:


DIMENSIONS

Depth is measured from wall to front of fixture

L = Length H = Height D = Depth

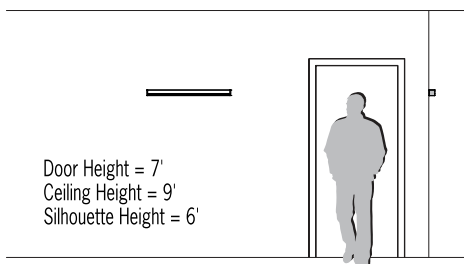
L 37-1/4" (946 mm)
H 2-1/2" (64 mm)
D 2-1/2" (64 mm)



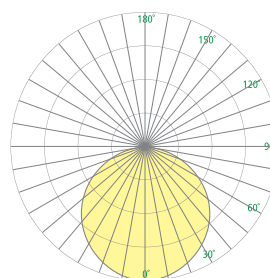
FEATURES

- High or low lumen output
- Luminous or Forward Throw output
- Modular design for replacement of LED source or driver
- Remote power supply included (suitable for indoor, Type IC)
- Optional dual circuit switching
- IP65 rated
- Bracket mounting system simplifies installation and maintenance
- Window mullion mount; minimum mullion width 2.5"
- Tamper resistant fasteners
- Polycarbonate diffuser
- No VOC powder coat paint finish; metal based sublimated wood look finish
- ETL Listed for wet location mounting 4' above grade

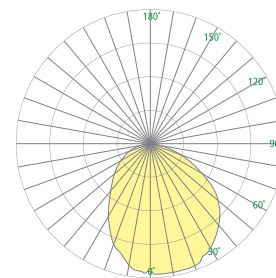
RELATIVE SCALE DRAWING



PHOTOMETRICS



LUM (Luminous Lens)



FT (Forward Throw Optic)



IP65



ADA Compliant



ETL Listed



5 Year Warranty

OW2480 PASSAGE (cont.)

Mullion Mount with Remote Power Supply



Fill in shaded boxes using information listed below

OW2480		—	MVOLT			
MODEL	SOURCE¹ L30K(H) L30K(L) L35K(H) L35K(L) L40K(H) L40K(L)		VOLTAGE MVOLT	OPTIC² LUM FT	FINISH See last page for finish order codes	OPTION³ DS

SOURCE¹ (Select one)

Dimmable 0-10V to 1%, Minimum 82CRI, within 3-step MacAdam

Source	CCT	Delivered Forward Throw Lumens	Delivered Luminous Lumens	Power (Watts)
L30K(H)	3000K	2700	1900	40
L30K(L)	3000K	900	650	14
L35K(H)	3500K	2700	1900	40
L35K(L)	3500K	900	650	14
L40K(H)	4000K	2700	1900	40
L40K(L)	4000K	900	650	14

VOLTAGE

MVOLT	120-277V, 50/60 Hz
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OPTIC² (Select one)

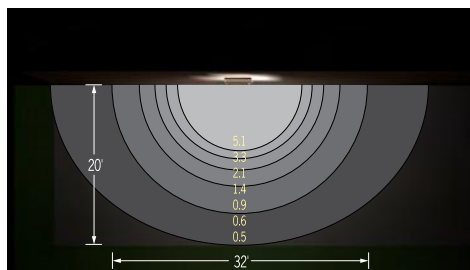
LUM	Luminous Lens
FT	Forward Throw Optic

OPTION³

⚠ Option availability may be interdependent with Other Options

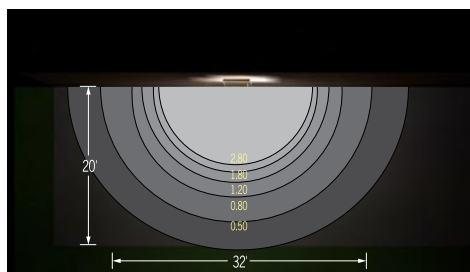
DS	Dual circuit switching (includes 2 drivers). Lumen output and wattage is split in half for each circuit
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PATH OF EGRESS - LUMINOUS LENS



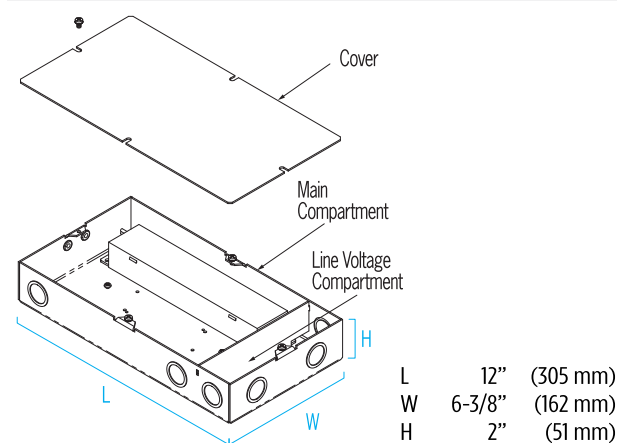
OW2480 -H Downlight, Mounted at 10' AFF, .70 light loss factor used

PATH OF EGRESS - FORWARD THROW

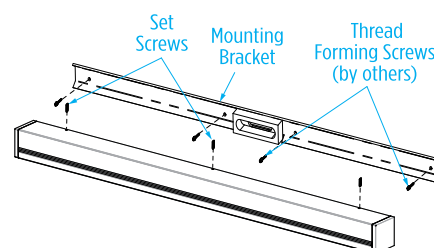


OW2486 -H Downlight, Mounted at 10' AFF, .70 light loss factor used

REMOTE POWER SUPPLY ENCLOSURE



MULLION MOUNTING DETAIL



OW2480 PASSAGE (cont.)

Mullion Mount with Remote Power Supply



PASSAGE PRODUCT FAMILY

- OW2480 – 37" – Mullion Mount with Remote Power Supply
- OW2482 – 37" – 2 X 4 Junction Box Mount with Integral Power Supply
- OW2484 – 72" – Mullion Mount with Remote Power Supply
- OW2486 – 72" – 2 X 4 Junction Box Mount with Integral Power Supply

SUGGESTED VARIATIONS

- Custom colors

See [Visalighting.com/products/Passage](https://visalighting.com/products/Passage) for more information

FINISHES

Specify color code when ordering. For accurate color matching, individual paint and finish samples are [available upon request](#). For more information about our finishes visit visalighting.com/finishes

Powder Coat Paint Finishes (Standard)

AGGY Agate Grey	ALGN Alpine Green	BJBG Baja Beige	BMAT Bronze Matte	BRNZ Bronze	BSIL Blade Silver	CVBL Cove Blue
DEOR Deoro Gold	GLWT Glacier White	GSIL Graphite Silver	HRGR Harbor Grey	JTBK Jet Black	OCBL Ocean Blue	SHGR Shoreline Grey
SBGN Sagebrush Green	SLGR Slate Grey	SSTP Sierra Taupe	TRCN Terracotta Canyon	TRWT Traffic White	VLBK Velvet Black	VNRD Vineyard Red

Wood Sublimated Metal Finishes (Premium)

MCA Mediterranean Cherry Metal Based Wood Alternative	NOA Natural Oak Metal Based Wood Alternative

WOOD SUBLIMATED METAL FINISH



SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

SPECIFICATION SHEET

Project :

Page: 1 of 8

Skill is a unique LED luminaire, assuring high lighting performance and total absence of glare. The most modern electronic technology is contained in the thickness of only 3 cm and provides an excellent quality of light while saving energy.

Luminaire characteristics:**Power input:** 4.7W to 23.8W (system wattage)**Lumens:** 157lm to 785lm (for 3000K, 90CRI)**Luminaire efficacy:** Up to 35lm/W**Source:**

LED Module (LM-80 tested)

2700K: 90CRI,

3000K: 90CRI,

4000K: 90CRI.

Lumen maintenance:

80% of initial lumens at 70 000 hours(L80)(LM-79)

Optics:

Accent light.

Material:

Body: Die-cast aluminum

Diffuser: Toughened glass.

Mounting:

See mounting options on page 4.

Electrical:

High efficiency electronic power supply, rated at 50 000 hours, 120-277V. See remote LED Driver options on page 3.

Dimming

0-10V down to 15% (120-277V), see page 3 for available remote options.

Finish:

White or aluminum gray painted finish, following a double powder paint in 3 step process: surface treatment containing ceramic nano particles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions.

Weight:

Miniskill vertical: 1.16lb (0.53kg)

Miniskill square: 1.34lb (0.61kg)

Miniskill round: 1.23lb (0.56kg)

Skill square: 3.26lb (1.48kg)

Skill square large: 6.55lb (2.97kg)

Skill round: 3.06lb (1.39kg)

Skill rectangular: 3.15lb (1.43kg)

Warranty:

5 year limited warranty.

Ratings:

IP65, IK08

Certification:

cULus listed for wet location

SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

SPECIFICATION SHEET

Project :

Page: 2 of 8

ORDERING INFO


 FIXTURE
MODEL

- ☐ **S6230** - Miniskill vertical
 ☐ **S6260** - Skill square
 ☐ **S6240** - Skill rectangular
- ☐ **S6250** - Miniskill square
 ☐ **S6255** - Skill square large ⁽¹⁾
- ☐ **S6270** - Miniskill round
 ☐ **S6280** - Skill round

LED

- ☐ **H** - 2700K, 90CRI
 ☐ **W** - 3000K, 90CRI
 ☐ **N** - 4000K, 90CRI

MOUNTING ⁽²⁾

- ☐ **DF** - Surface mounted with direct feed
 ☐ **JB** - Surface mounted junction box
 ☐ **FM** - Recessed mounted flush with surface
 ☐ **J2** - Surface mounted single gang box
- ☐ **FW** - Surface mounted with fixture whip

VOLTAGE

- ☐ **UNV** - 120-277V
 ☐ **REM** - Remote

FINISH

- ☐ **01** - White
 ☐ **14** - Aluminum

DIMMING

- ☐ **D10** - 0-10V ⁽³⁾ ⁽⁴⁾

⁽¹⁾ Available with surface mounted junction box (**JB**) mounting and 120-277V (**UNV**) voltage.

⁽²⁾ See previous page 4-5 for model availability.

⁽³⁾ Available with **6250**, **6260**, **6270**, **6280**, **6255** models.

⁽⁴⁾ Available with 120-277V (**UNV**) voltage.

SKILL

SURFACE MOUNTED - FLUSH MOUNTED

REMOTE POWER SUPPLY OPTIONS
(TO BE ORDERED SEPARATELY)

							Miniskill S6230 / 50 / 70	Skill S6260 / 80	Skill Rectangular S6240
							5.2W*	11W*	12W*
Watts	Voltage	Rated	Dimming protocol	Dimming range	Dimension	Max distance**	Min-Max Units		
<input type="checkbox"/>	4444-0024-020-120-ND						1-3	1	1
20	120V	Indoor	None	None	6" x 4" x 3" (152 x 102 x 76mm)	30ft(9m)			
<input type="checkbox"/>	4448-0024-060-UNV-ND						1-11	1-5	1-5
60	120-277V	Indoor	None	None	10" x 8" x 4" (254 x 203 x 102mm)	30ft(9m)			
<input type="checkbox"/>	4549-0024-075-UNV-D10						1-14	1-6	1-6
75	120-277V	Outdoor	0-10V	Down to ±10%	8" x 1" x 2" (203 x 25 x 51mm)	30ft(9m)			
<input type="checkbox"/>	4545-0024-075-UNV-ND						1-14	1-6	1-6
75	120-277V	Outdoor	None	None	11" x 3" x 2" (279 x 76 x 51mm)	30ft(9m)			
<input type="checkbox"/>	4551-0024-080-120-LTE						1-15 Dim 6-15	1-7 Dim 3-7	1-6 Dim 3-6
80	120V	Outdoor	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	14" X 5" X 2" (356 X 127 X 51mm)	30ft(9m)			
<input type="checkbox"/>	4448-0024-150-UNV-D10						1-28	1-13	1-12
150	120-277V	Indoor	0-10V	Down to ±10%	10" x 8" x 4" (254 x 203 x 102mm)	25ft (7.5m)			
<input type="checkbox"/>	4546-0024-200-2C-UNV-ND						1-38	1-18	1-16
200	120-277V	Outdoor	None	None	12" X 5" X 2" (305 X 127 X 51mm)	30ft (9m) Per channel			

* Wattage requirement for one (1) fixture (Remote fixture only).
** Contact factory for longer remote distance.

SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

Project :

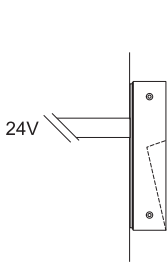
SPECIFICATION SHEET

Page: 4 of 8

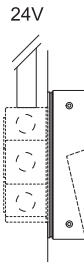
MOUNTING OPTIONS

Miniskill

(S6250 - S6270)



DF-REM - Direct feed with remote power supply.
Connections made inside fixture
Max 2x18AWG
Installed directly to surface.

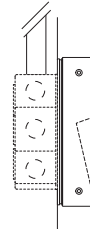


JB-REM - 4" junction box with remote power supply.
Mounting adapter plate for junction box installation.
Min 1½" (38mm) deep



FM-REM - Recessed mounted flush with surface. Remote power supply.
Cast in concrete application, supplied with back box **S6256 - S6278**
Min 2¼" (73mm) deep

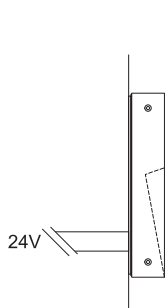
120-277V



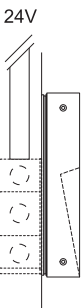
JB-UNV - 4" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1½" (38mm) deep

Skill

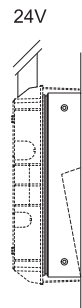
(S6240 - S6260 - S6280)



DF-REM - Direct feed with remote power supply.
Connections made inside fixture (14-18AWG only). Max Ø3/8" power cable.
Installed directly to surface.

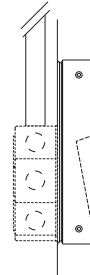


JB-REM - 4" junction box with remote power supply.
Mounting adapter plate for junction box installation.
Min 1½" (38mm) deep



FM-REM - Recessed mounted flush with surface. Remote power supply.
Cast in concrete application, supplied with back box **S6247 - S6268 - S6288**.
Min 2¼" (73mm) deep

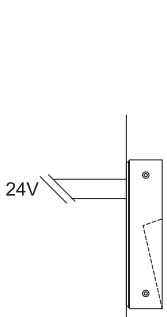
120-277V



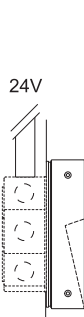
JB-UNV - 4" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1½" (38mm) deep

Miniskill Vertical

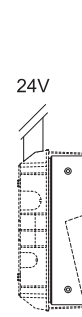
(S6230)



FW-REM - Fixture whip to remote power supply.
Installed directly to surface with recessed pipe, exposed cable or electrical conduit.

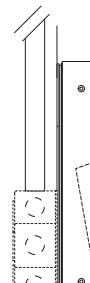


J2-REM - 2" junction box with remote power supply.
Mounting adapter plate for junction box installation.
Min 1½" (48mm) deep



FM-REM - Recessed mounted flush with surface. Remote power supply.
Cast in concrete application, supplied with back box **S6239**.
Min 2¼" (73mm) deep

120-277V



JB-UNV - 4" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1½" (38mm) deep

Skill Square Large

(S6255)



SKILL

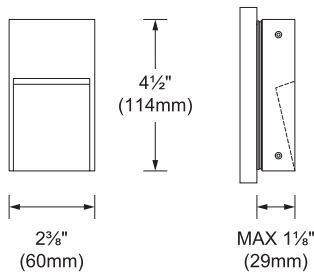
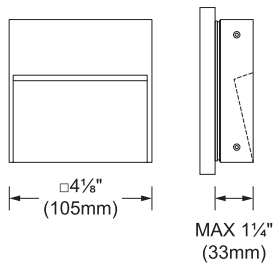
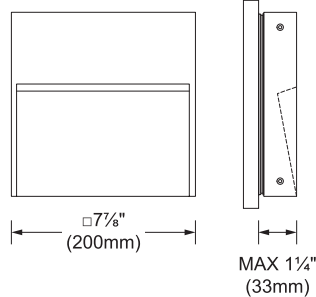
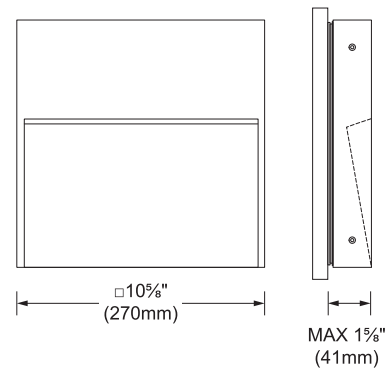
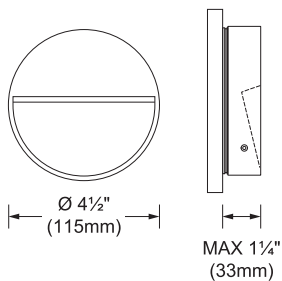
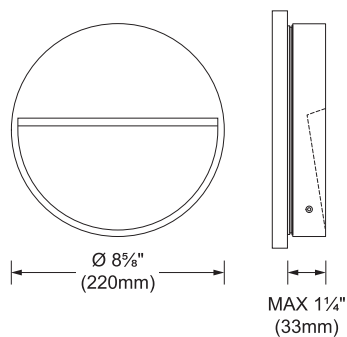
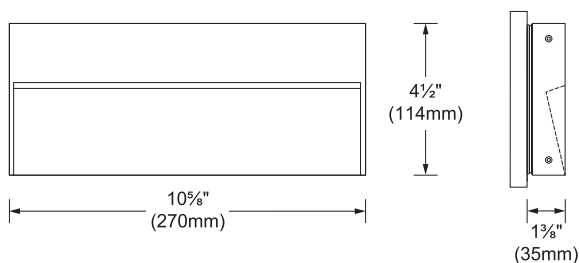
SURFACE MOUNTED - FLUSH MOUNTED

Type:

Project :

SPECIFICATION SHEET

Page: 5 of 8

DIMENSIONS**Miniskill vertical**
S6230**Miniskill Square**
S6250**Skill Square**
S6260**Skill Square Large**
S6255**Miniskill Round**
S6270**Skill Round**
S6280**Skill Rectangular**
S6240

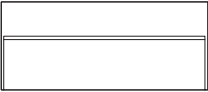
SKILL

SURFACE MOUNTED - FLUSH MOUNTED

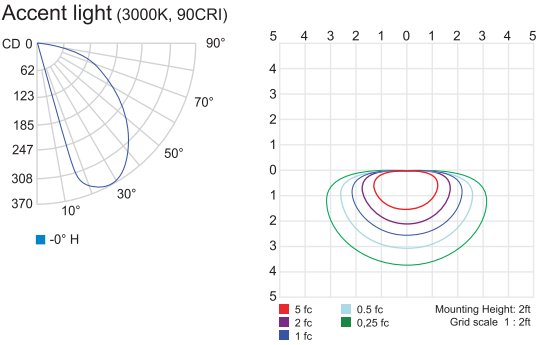
PHOTOMETRIC DATA

Visit sistemalux.com for complete photometric data.

Skill Rectangular



CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODEL
3000K	90	13.5W	Accent light	420	31	363	S6240W



CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	90CRI
Multiplier	0.94	1	1.02

DELTA STAR LED

IP66 RATED

DATE:

PROJECT:

TYPE:

CATALOG NUMBER LOGIC:



**Designed for use with LED transformer. Requires magnetic low voltage dimmer.*

***Please see Adjust-e-Lume photometry to determine desired intensity.*

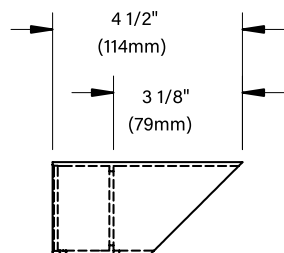
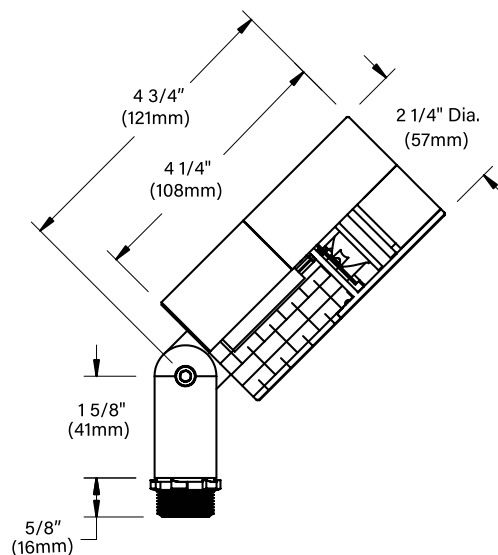
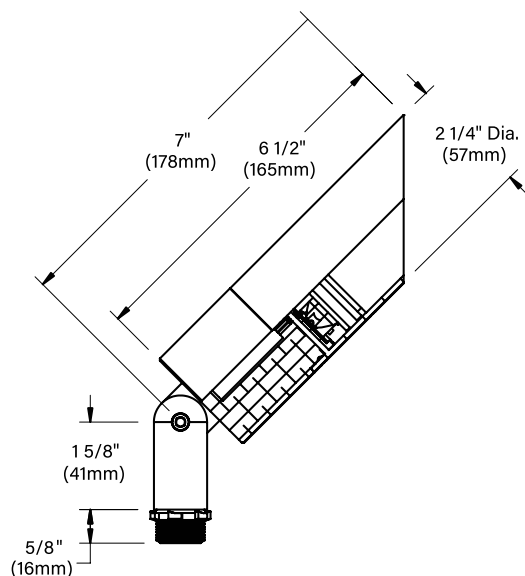
****The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.*

CATALOG NUMBER LOGIC	
Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL	
MATERIAL	
(Blank) - Aluminum B - Brass S - Stainless Steel	
SERIES	
DS - Delta Star	
SOURCE	
LED - with Integral Dimming Driver (25W min. load when dimmed)*	
LED TYPE	
e64 - 7W LED/2700K	e79 - 7W LED/2700K 90CRI
e65 - 7W LED/3000K	e80 - 7W LED/3000K 90CRI
e66 - 7W LED/4000K	e81 - 7W LED/3500K 80CRI
e74 - 7W LED/Amber	
OPTICS	
NSP - Narrow Spot (13°)	MFL - Medium Flood (23°)
SP - Spot (16°)	WFL - Wide Flood (31°)
ADJUST-E-LUME® OUTPUT INTENSITY**	
A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1	
FINISH (See page 2 for full-color swatches)	
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)	
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)	
Also available in RAL Finishes	
Brass Finishes (MAC, POL, MIT)	
Stainless Steel Finishes (MAC, POL)	
LENS TYPE	
12 - Soft Focus	13 - Rectilinear
SHIELDING	
11 - Honeycomb Baffle	
CAP STYLE	
A - 45°	
B - 90°	
C - Flush Lens	
D - 45° Less Weephole (Interior use only)	
E - 90° Less Weephole (Interior use only)	
F - 90° with Flush Lens	
OPTION	
360SL - Knuckle Mounting System***	
MOD OPTIONS	
5 - 5 Ft Leads	
25 - 25 Ft Leads	

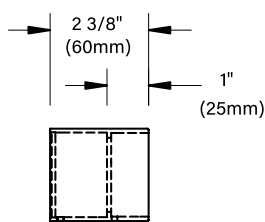
DELTA STAR LED

IP66 RATED

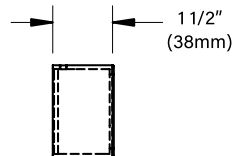
DATE:	PROJECT:	TYPE:
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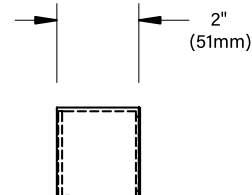
A/D CAP



B/E CAP



C CAP



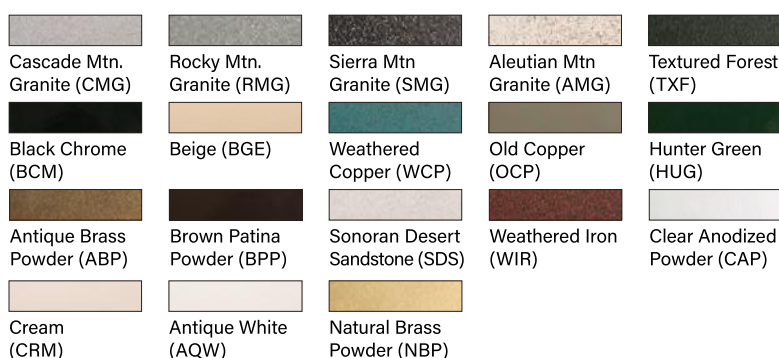
F CAP

STANDARD FINISHES



[Click Here](#) to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

**B-K LIGHTING****MADE IN THE USA**559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

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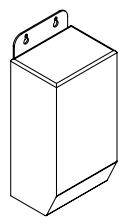
12/06/2022 SKU-739
SUB000930

DELTA STAR LED

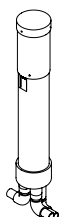
IP66 RATED

DATE:	PROJECT:	TYPE:
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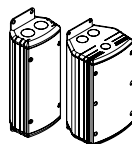
Accessories (Configure separately)



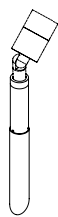
TR Series



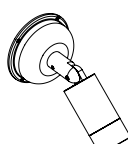
Power Pipe



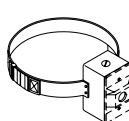
UPMRM



Power Pipe



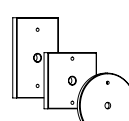
Power Canopy



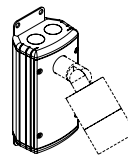
Tree Strap



Stems






Canopies



UPM

SPECIFICATIONS

ELECTRICAL	WATTAGE	7W LED
	WIRING	XLPE, 18GA,150C, 600V, rated and certified to UL3321.
	REMOTE TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	KNUCKLE	LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a 1/2" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.
	CAP	Fully machined and accommodates two (2) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components. Integral, constant current driver, 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to <250mA non-dimming). Output, overvoltage, open-circuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 250.13-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	ADJUST-E-LUME	Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.
	OPTICS	Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot (SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.
	HARDWARE	Tamper-resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.
  	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.

B-K LIGHTING

MADE IN THE USA

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12/06/2022 SKU-739
SUB000930

LAMP & DRIVER DATA (e64, e65, e66, e74)

DATE:

PROJECT:

TYPE:

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

LM79 DATA				L70 DATA		OPTICAL DATA			
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L ₇₀)		Angle	CBCP	Delivered Lumens	Multiplier
e64	2700K	80	7	50,000		13°	5993	456	0.87
	2700K	80	7	50,000		16°	4546	445	0.87
	2700K	80	7	50,000		23°	1726	397	0.87
	2700K	80	7	50,000		31°	1131	399	0.87
e65	3000K	80	7	50,000		13°	6131	466	0.89
	3000K	80	7	50,000		16°	4650	455	0.89
	3000K	80	7	50,000		23	1766	406	0.89
	3000K	80	7	50,000		31°	1157	409	0.89
e66	4000K	80	7	50,000		13°	6889	524	
	4000K	80	7	50,000		16°	5225	511	
	4000K	80	7	50,000		23°	1984	456	
	4000K	80	7	50,000		31°	1300	459	
e74	Amber	80	7	50,000		13°	3,927	299	0.57
	Amber	80	7	50,000		16°	2,978	291	0.57
	Amber	80	7	50,000		23°	1,131	260	0.57
	Amber	80	7	50,000		31°	741	262	0.57

OPTICS

Optic	Angle
NSP - Narrow Spot	13°
SP - Spot	16°
MFL - Medium Flood	23°
WFL - Wide Flood	31°



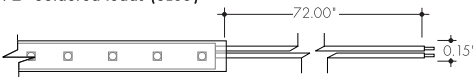
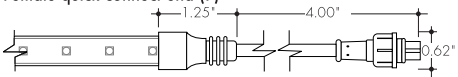
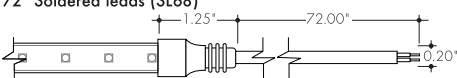
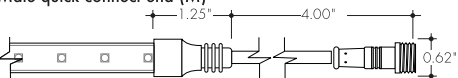


It is well established that traditional forms of artificial light can disrupt sea turtle hatching patterns and disorient hatchlings. Our FWC (Florida Wildlife Commission) certified luminaires feature carefully crafted 590nm LEDs that, when used in conjunction with proper shielding, can help create a safer space for sea turtles and other wildlife.



Applications: outdoor / wet location, above cabinet, cove lighting, counter accent, architectural accents, under banisters, decks, gazebos, barbeque stations and wet bars.



Technical information

MODEL	LL18-WET-T-WL	SECTION START/END OPTIONS	
LEDS/ft	18		
Light output	40 lum/ft		
Average power consumption (for 15' section)	1.5 W/ft		
Ordering increment	4.00"		
Maximum run length (in series)	64 ft		
Profile Dimensions W/connector dimensions, see line drawing	0.47" W 0.24" H		
		72" Soldered leads (SL65)	Female quick connect end (F)
			
		72" Soldered leads (SL68)	Male quick connect end (M)
			
		No connector (NC) IP65 model only	No connector (NC) IP68 model only
			

Ordering code

MODEL	COLOR	SECTION START	SECTION END	LENGTH
LL18-WET-T-WL	A	SL65	NC	
LL18-WET-T-WL - LL18WET Tube, Wild life				
A - Amber		SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") F - Female connector M - Male connector NC - No connector	SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") F - Female connector M - Male connector NC - No connector	view table above for increment options and maximum run limits

LineLED 18-WL Wet Tube

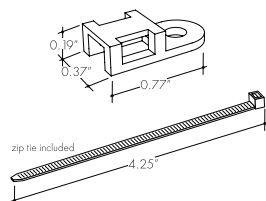
IP65 & IP68 rated Linear LED strip - 24V



Accessories

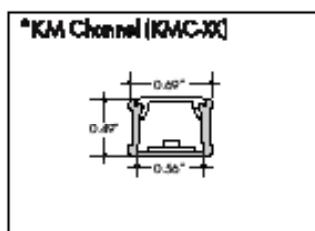
LL.ZIP

Cable/Wire Strain Relief Clip

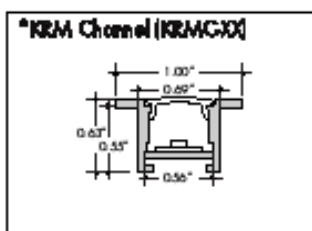


Lens options / light transmission percentage per lens

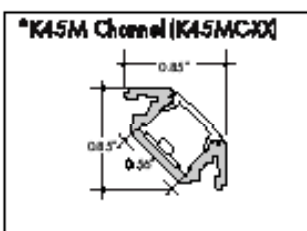
C Clear	HF Half (50%) Frosted	G Gaze	SI Satin Ice	S Square Frosted	Q Rounded Square Frosted
F Frosted	M Medium beam frosted	R Beveled	C36 Clear 36° beam angle	C10 Clear 10° beam angle	



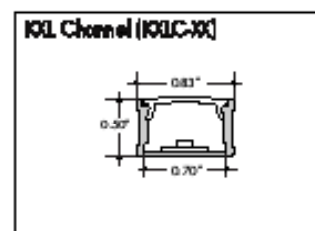
C	F	HF	C10	R
71%	42%	38%	67%	34%



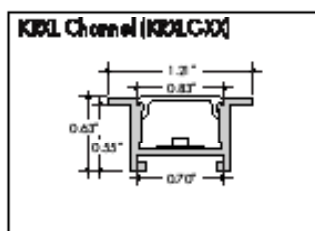
C	F	HF
71%	42%	38%



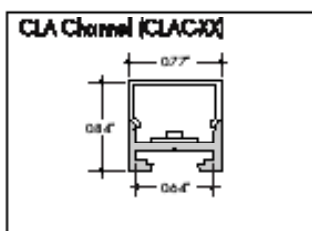
C	F	HF	C10
71%	42%	38%	67%



C	F	HF
74%	46%	61%



C	F	HF
74%	46%	61%



S	Q
62%	63%

*Not compatible with IP68 connectors

Installation

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

Ordering

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

Discontinued Extrusion Reference Link

REV 1.3 02142023
<https://www.luminii.com/media/4351/extrusion-update-02.pdf>

HARTNANT LIGHTING DESIGN

LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



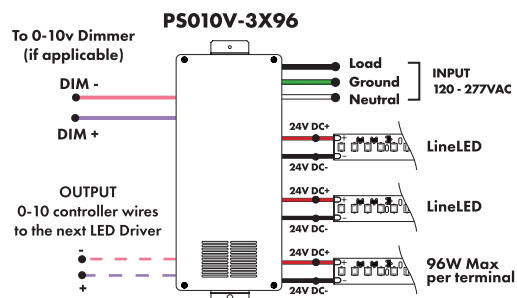
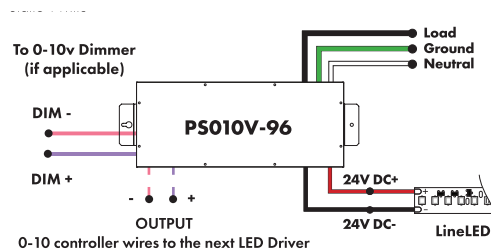
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PS010V - 0-10V Power Supply dims down to 0.1%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

MODELS	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"

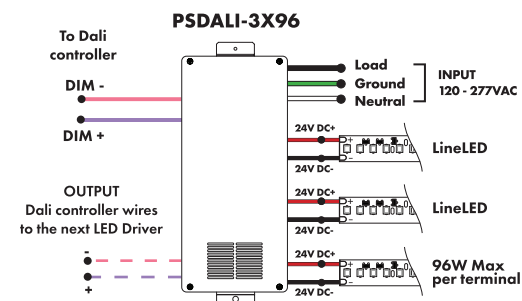
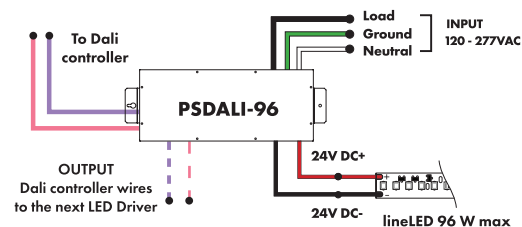


DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDALI - DALI Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

Model	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"

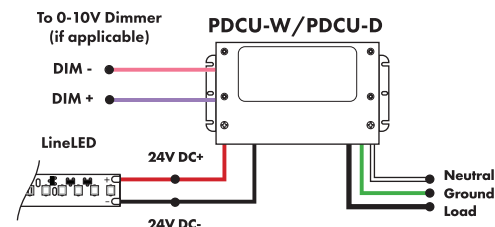


Universal Power Supply 1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W 60 - 60 W 96 - 96 W 3X96 - 3X96 W	24 - 24 VDC
PDCU-W - IP66 Wet Series	96 - 96 W 3X96 - 3X96 W	

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.

For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.



MODEL	PDCU-W-96W	PDCU-W-3X96W	PDCU-D-30W	PDCU-D-60W	PDCU-D-96W	PDCU-D-3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33	1.32"	1.56"	1.13"

LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

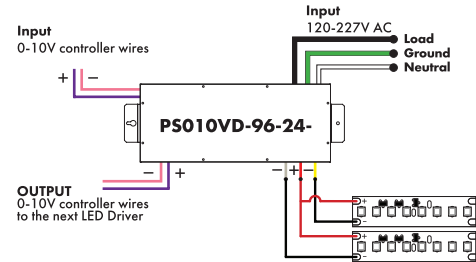
Customizable Dim to Warm or Variable White via 0 - 10V

(for tunable white or warm dimming control of Dynamic option)

MODEL	POWER	OUTPUT	CONTROL
PS010VD-0-10V Vintage Dim LED Driver	96-96 Watt	24-24 VDC	W2I-Standard dimming for both tapes

*Zonal control power supplies

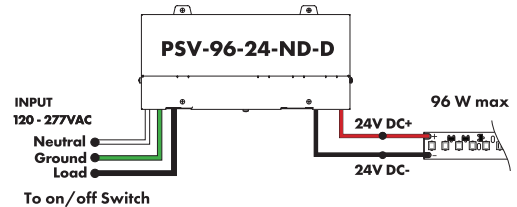
MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

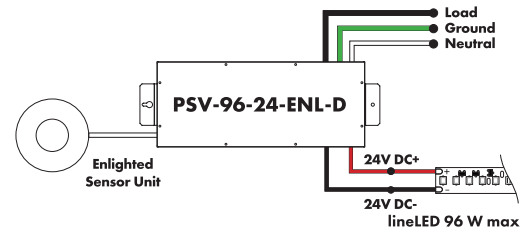
MODELS	96W
Length	8.25"
Width	3.75"
Depth	1.63"



Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

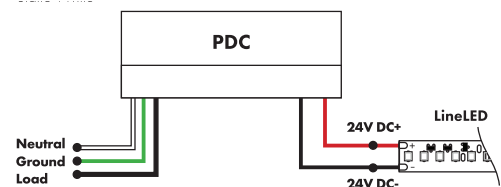
Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Triac, MLV, ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"



LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



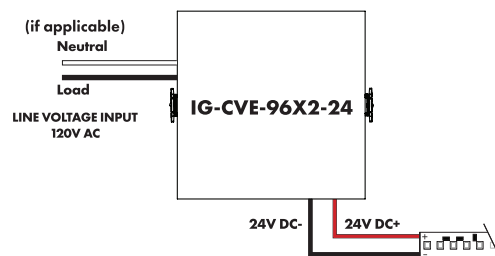
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series	CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%	96X2 - 2 X 96 Watt 24 - 24 VDC	Blank - 120 V 277 - 240/277 V

MODEL	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"



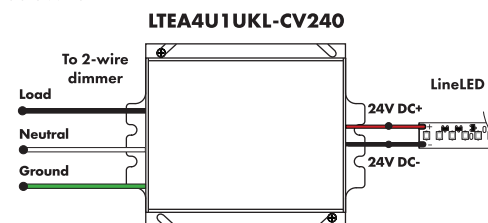
Luminii is a Lutron OEM Advantage Partner **Lutron Power Supplies 1%**

MODEL
LTEA4U1UKL-CV240

Lutron - HiLume™ 1% 2-wire LED Driver 40W max

(120V forward phase only)

MODEL	LTEA41UKL-CV240
Length	4.89"
Width	4.00"
Depth	2.62"



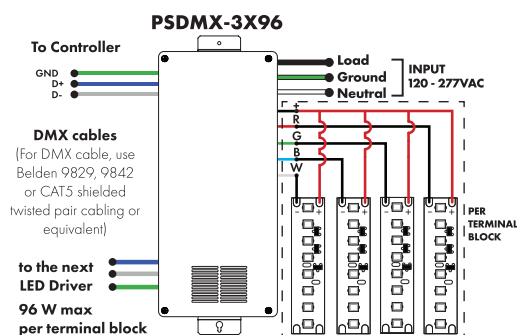
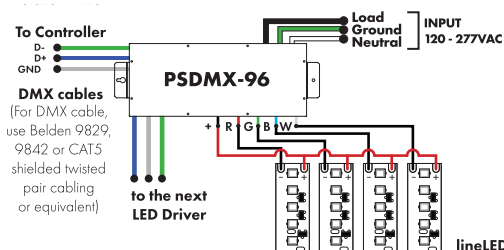
DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX - DMX Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

*Zonal control power supplies. Control multiple tapes/zones using DMX channels.

MODEL	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.60"
Depth	2.60"	4.20"



LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



Decoders



MODEL

DDMX-5CH-RDM-PRO

DDMX-5CH-RDM-PRO-DMX512 Decoder

DMX512 decoder with RDM functionality features 5 PWM output channels with common anode. High PWM output frequency range allows the product to be used in HD video conferencing spaces. All DMX products to be installed per DMX512 Standard.

Power
96 Watt

Inputs
RJ45, XLR-5Pin, Terminal Block

DMX Channels
1 to 5 settable

PWM Output Resolution Ratio
8 or 16 bit

PWM Output Frequency
500Hz - 30KHz

Output Dimming Curve Gamma Value
0.1 ~ 9.9



MODEL

DDMX-RGBW

DDMX-RGBW - DMX512 Decoder

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output (Luminii part# RGBW-SR).

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

Operating Temperature Range
from -4°F to +122°F in case

PWM Output Frequency
200Hz or 1500Hz



MODEL

RGBW-RC-R

RGBW-RC-R - RGBW receiver

The RGBW receiver is easily paired with controller by the click of a button. Receiver can be reset to factory settings at any time.

Each receiver can store one static RGB color, one color sequence, and one brightness setting for the white LED strip. Receivers assigned to the same scene within the same zone will have the same LED static color and color sequence.

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

Operating Temperature Range
from -4°F to +122°F in case

LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



Decoders



MODEL

RGBW-SR

RGBW-SR - RGBW signal repeater

Extends identical signal when connected in series to an RGBW LED control system. The RGBW signal repeater works with Luminii RGB and RGBWV controllers, receivers, and decoders.

RGBW signal can be extended indefinitely when adequate power supply (not included) is connected to the system.

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

Operating Temperature Range
from -4°F to +122°F in case



MODEL

RGBW-WI-R

RGBW-WI-R - WiFi generator

RGBW-WI-R creates a local network that enables any electronic device (phone, tablet, etc.) to control the RGB/W strip connected to a RGBW-RC-R receiver.

The control functions are achieved through a free application download for Android and iOS devices called REALCOLOR.

Operating Voltage
12-36 VDC

Power Supply
PI-130-24 (included)

Operating Temperature Range
from -4°F to +122°F in case



MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can controller endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

Power Supply

7 VDC (included)

Programmability

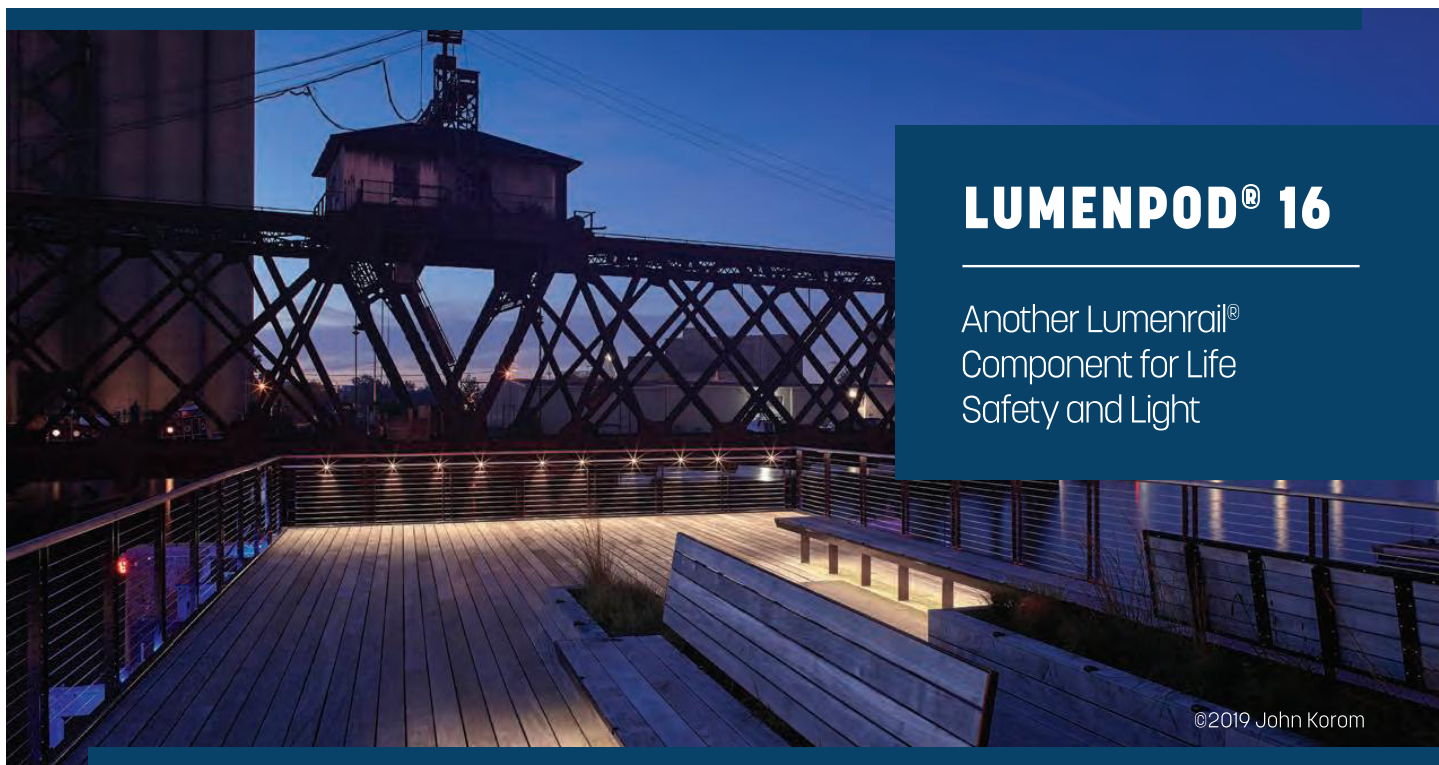
PC, Mac, Tablet, Smartphone

Output Signal

DMX512 (1024 channels)

Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness



LUMENPOD® 16

Another Lumenrail®
Component for Life
Safety and Light

©2019 John Korom

COMPACT PERFORMER

The next generation point source from Wagner Architectural Systems has performance that far exceeds the expectations of its discreet 5/8" diameter. The mechanically threaded luminaire is designed for pathway illumination with mounting options for hand rail, guardrail, decks, and shelter or entry structures. Asymmetric performance can be precisely achieved, and superior harsh environment protection and vandal resistance are combined with a simple installation. The Lumenpod provides a low-profile architectural solution for new or retrofit applications and egress compliance opportunities



Specifications subject to change without notice. Verify data at time of order.

- Solid machined 316 stainless steel
- Universal installation in a variety of materials
- 116 lumens per watt LED (500 mA)
- 5 IES file supported optic distributions
- IK10 impact rating and secure installation
- 24VDC operation
- ETL wet location listed
- IP67 ingress protection
- Standard in 2700 K, 3000 K and 4000 K
- 4 CCT whites and solid colors available

Page 1 of 2

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WagnerCompanies.com
LULF SUBM R8

LUMENPOD® 16

Another Lumenrail® Component
for Life Safety and Light

PROJECT NAME: _____

REP AGENCY: _____

APPROX. LINEAR FT: _____

SERVICE OPTIONS: ☐ Field Measure ☐ Job Site Support ☐ System InstallationSCAN QR CODE
for technical information,
downloads and instructions.

PART NUMBER BUILDER

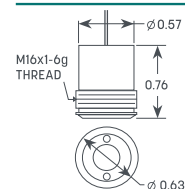
LULF40K703	LULF			
EXAMPLE	FIXTURE TYPE	COLOR TEMP	OPTIC	DRIVE CURRENT
* Indicates stock, other options may require additional lead-time.	LULF- Lumenpod®16	*27K- 2700 K *30K- 3000 K *40K- 4000 K 50K- 5000 K	BLU- Blue GRN- Green RED- Red AMB- Amber	16- 16° beam 23- 23° beam 46- 46° beam *70- 70° beam 94- 94° beam

*5- 2.2W @ 500 mA
 *3- 1.7W @ 350 mA
 Extended life 100,000HR version
 requires 350 mA

ELECTRICAL SPECIFICATIONS

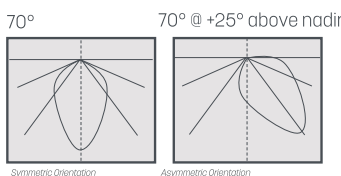
 Intertek All electrical connections to be made by a qualified electrician in accordance with all national, state and local electrical codes.	24VDC	ETL LISTED WET, IK10, IP67, CE	0-10V INPUT	-40°F TO +120°F
	INPUT VOLTAGE	CERTIFICATIONS	DIMMING	OPERATING TEMP
	CLASS 2 REQUIRED	5 YEARS	UP TO 116 LM/W LED	80+
	DRIVER	WARRANTY	EFFICIENCY	8"
				CRI
				WIRE LENGTH

CONSTRUCTION



The Lumenpod's threaded stainless steel body dissipates heat directly into the mounting material. A machined shoulder positions it nearly flush with any diameter hand rail, as well as flat or square stock.

PHOTOMETRICS



Asymmetric performance can be fine tuned on fabricated systems by rotating the fixture around the rail diameter. A 25° angle provides superb illumination results in most applications. IES reports to view or download are available by scanning the QR code or visiting our website.

LUMENGear™ LED DRIVER & NEMA ENCLOSURE OPTIONS

Wagner offers multiple ETL listed options for both 24VDC power supplies and NEMA enclosures. Quantities and types will be configured based on your specifications and design. Additional specification options are available by request. Not all options apply to all products, please verify compatibility with the factory.

CLASS II DRIVERS:

- STD 100W
- Dali, DMX, 0-10V Dimming Protocols
- Multiple Wattages
- Made in USA Units Available

NEMA ENCLOSURES:

4X - Polycarbonate, Painted Steel or Stainless Steel

LUMENPOST™:

Integrated 100W, 0-10V DIM

Specifications may change without prior notice, verify data at time of order, all rights reserved

@wagnercompanies

WAGNER
Architectural Systems

888-243-6914 // rfq@mailwagner.com
 10600 West Brown Deer Road // Milwaukee, WI 53224, USA

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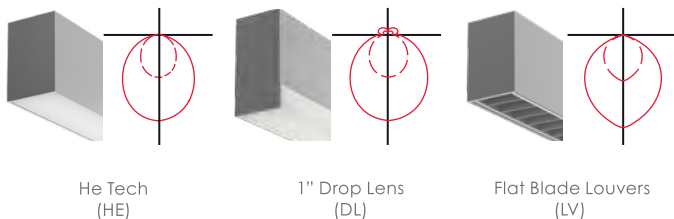


PERFORMANCE

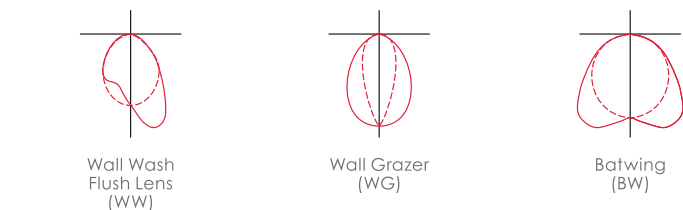
OUTPUT	OPTICS	NOMINAL		
		LM OUTPUT	INPUT WATTS	EFFICACY
LH (high)	HE Tech™	1075 lm/ft	10 W/ft	109 lm/W
	1" Drop Lens	861 lm/ft	9.8 W/ft	88 lm/W
LS (standard)	HE Tech™	572 lm/ft	4.9 W/ft	117 lm/W
	1" Drop Lens	453 lm/ft	4.9 W/ft	95 lm/W

Based on static white 35K HE lens fixtures. For the complete photometric data of this fixture refer to page 4.

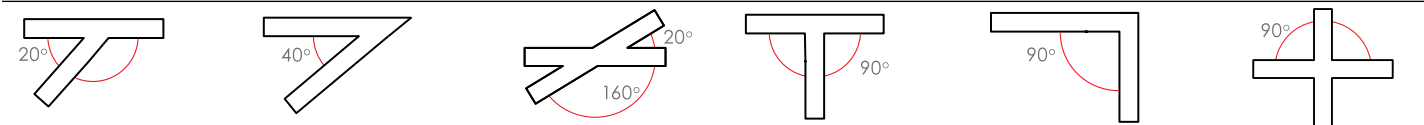
DOWNLIGHT LENS OPTIONS



OTHER OPTIONS



MULTIPLE INTERSECTIONS AND CORNERS OPTIONS



ACL3ST

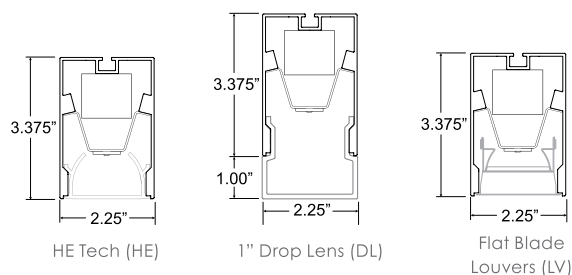
Direct - Suspended - Surface - Wall

ACL3ST combines clean lines with high performance direct distribution, for a functional and aesthetically pleasing slim profile.

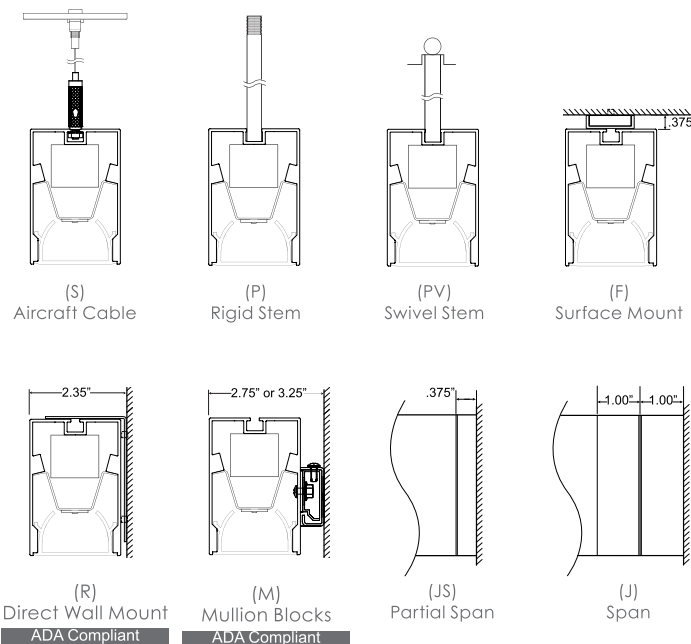
Replacement of ACCOLED - ACL3

- Unique patterns with fully lit corners and intersections possible with Design Assist.
- Individual units and continuous runs in exact lengths.
- Adjustable mounting options for ease of installation.
- Custom color options.
- Quickship nominal options.
- ADA compliant mounting options.

DIMENSIONS



MOUNTING OPTIONS



ACL3ST | SPECIFICATION

PERFORMANCE AT 3500K

OUTPUT	OPTICS	NOMINAL		
		LUMEN OUPUT	INPUT WATTS	EFFICACY
LH <small>(high)</small>	HE Tech™	1075 lm/ft	9.8 W/ft	109 lm/W
	1" Drop Lens	843 lm/ft	9.8 W/ft	86 lm/W
	Flat Blade Louver*	982 lm/ft	9.8 W/ft	100 lm/W
LS <small>(standard)</small>	HE Tech™	572 lm/ft	4.9 W/ft	117 lm/W
	1" Drop Lens	443 lm/ft	4.9 W/ft	90 lm/W
	Flat Blade Louver*	517 lm/ft	4.9 W/ft	106 lm/W

Custom tuned output available from 25% to 125% of high output. Please consult factory for custom lumen output and wattage. *Flat Blade Louver calculated using the aluminum finish.


PROJECT INFORMATION

Project Info

Date

Type

Quantity

 **Need help? Don't see what you need?**

Please reach out to our factory for any specific request or questions you have. Our talented Design Assist team at: designassist@alights.com

ACL3ST

ACL3ST							
SERIES	LENGTH OR PATTERN TYPE	INTERSECTION TYPE	OUTPUT	LED CCT	CRI	VOLTAGE	DIRECT OPTICS
ACL3ST	<div><div>— Nominal Length*</div><div>M_ Exact Length**</div><div>PL_ "L" Shape***</div><div>PU_ "U" Shape***</div><div>PR_ Rectangle / Square***</div><div>CP Custom Pattern****</div></div> <div><div>*Specify in feet to the nearest foot (i.e. 12)</div><div>**Specify in inches to the nearest 1/8 (i.e. 180.125)</div><div>***Specify in inches to the nearest 1/8 (See Pattern Guide (P6) for configurations)</div><div>****Contact Design Assist</div></div>	<div><div>IT "T" Intersection*</div><div>IX "X" Intersection*</div><div>IY "Y" Intersection**</div></div> <div><div>*Not available with Drop Lens. Available with Flat Blade Louvers only in 90° degrees.</div><div>**Fully illuminated intersection available with HE Tech and Polycarbonate Flush WISP optics only. Contact Design Assist.</div></div>	<div><div>LH High Output</div><div>LS Standard Output</div><div>C_ Custom Output*</div></div> <div><div>*Available from 25% to 125% of LED High Output.</div></div>	<div><div>27 2700K</div><div>30 3000K</div><div>35 3500K</div><div>40 4000K</div><div>TW Tunable White*</div><div>DW Dim-to-warm*</div></div> <div><div>*Standard CCT range is 27-50K. Contact design assist for custom range</div></div>	<div><div>— 80+ CRI</div><div>CRI 90+ CRI*</div></div> <div><div>*Not offered with (TW) Tunable white or (DW) Dim-to-warm.</div></div>	<div><div>U 120V-277V</div><div>3 347V</div></div>	<div><div>HE HE Tech™</div><div>DL 1" Drop Lens*</div><div>LV Flat Blade Louvers**</div><div>PFW Polycarbonate Flush WISP™</div><div>WW Direct Wall Wash</div><div>WG Direct Wall Grazer</div><div>BW Direct Batwing Wide</div></div> <div><div>* Not available in Wet Location.</div><div>**Aluminum Standard. Not available in Wet Location.</div></div>



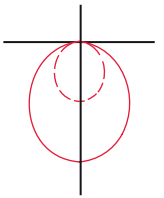


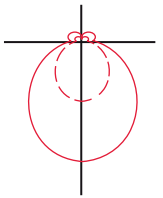


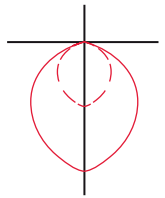
MOUNTING	FINISH	DIMMING	EMERGENCY	SENSORS	OPTIONS
<div><div>S Aircraft Cable*</div><div>P_ Rigid Stem**</div><div>PV_ Swivel Stem**</div><div>R Direct Wall Mount</div><div>M_ Mullion Blocks***</div><div>F Surface Mount****</div><div>JS Partial Span</div><div>J Full Span</div></div> <div><div>Standard power cord exit point is 3" away from end-cap. Contact Design Assist for custom location.</div><div>*Standard 48" field adjustable cable, specify length to nearest inch if over 48". Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified.</div><div>**Indicate stem length to nearest inch, 6.00" minimum.</div><div>***Enter 1 for 1" depth. Enter 5 for 1/2" depth.</div><div>****Available for ceiling and wall surface mounting.</div></div>	<div><div>T Titanium</div><div>W White</div><div>B Black</div><div>O_ Other*</div></div> <div><div>*Specify RAL#</div></div>	<div><div>D Standard 0-10V dimming*</div><div>D1 HiLume Ecosystems 1% (LDEI)</div><div>D2 Phase dimming**</div><div>D4 DALI dim-to-off (EldoLED)</div><div>NAIR nLight@AIR (dim-to-off)</div><div>NWIR nLight@Wired (dim-to-off)</div><div>DO Dimming - Other***</div></div> <div><div>* 1% Dimming standard unless otherwise specified.</div><div>**Reference ERP-PHB driver for compatible dimmers.</div><div>***Specify if other dimming driver is needed. Contact Design Assist.</div></div>	<div><div>EC Emergency - circuited*</div><div>E_ Emergency - battery**</div></div> <div><div>*Not available on fixtures < 4' length. Smallest EM circuit is 2'ft. If entire fixture is on EM circuit, no need to call out EC in part number.</div><div>**Factory-installed emergency battery pack. Specify desired quantity of batteries. Not available on fixtures < 4' length. Not available for 347V. See technical data for more information.</div></div>	<div><div>OF Occupancy Sensor - Fixture</div><div>PF Photocell / Daylight Sensor - Fixture</div><div>OPF Occupancy / Daylight Sensor - Fixture</div></div> <div><div>*Sensor will be matched to dimming input.</div></div>	<div><div>M Multi-Circuit*</div><div>R Right End cap Feed</div><div>L Left End cap Feed</div><div>K Natatorium Application**</div><div>Q Wet Location***</div><div>MRI MRI</div></div> <div><div>*Submit multi-circuiting requirements.</div><div>**Not available with aircraft cable. See guide and contact Design Assist. Not compatible with Drop Lens, Flat Blade Louvers.</div><div>***Client must specify power feed location. Not available with aircraft cable. Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information. Not compatible with Drop Lens, Flat Blade Louvers optics.</div></div>



LIGHT DISTRIBUTION

DISTRIBUTION	OUTPUT
Direct Symmetric	LH: High output - 9.8 W/ft LS: Standard output - 4.9 W/ft C: Custom tuned output - Contact Design Assist

PHOTOMETRIC DATA

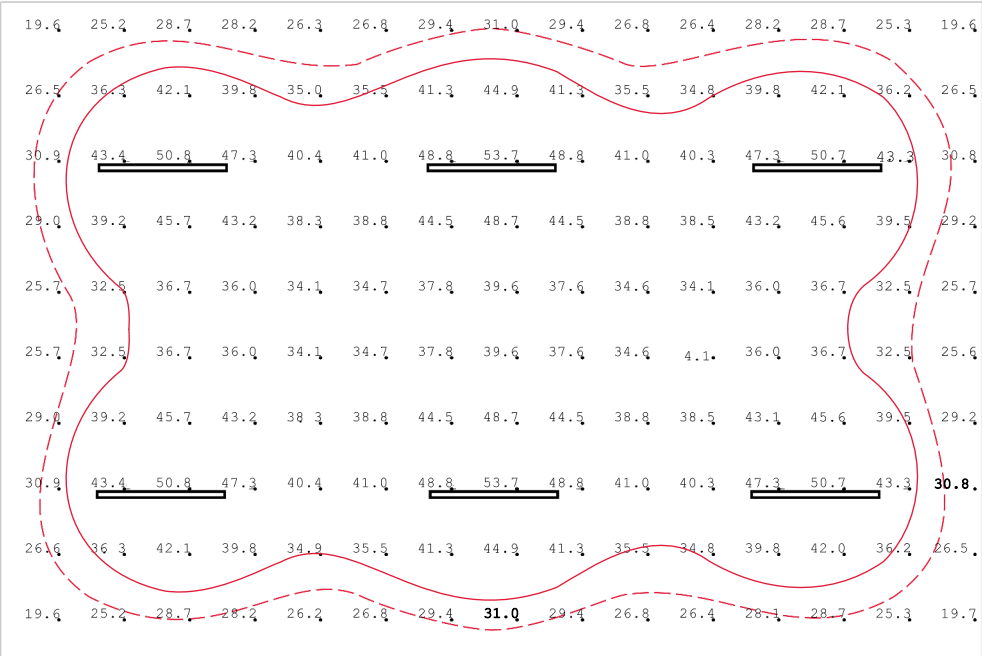
<p>DIRECT SYMMETRIC</p> <p>LH - 4FT - 3500K - HE TECH</p> <p>Lumens: 1075 lm/ft Input watts: 9.8 W/ft Efficacy: 109 lm/W</p> <p>LH:  LS: </p> 	<p>DIRECT SYMMETRIC</p> <p>LH - 4FT - 3500K - DROP LENS</p> <p>Lumens: 843 lm/ft Input watts: 9.8 W/ft Efficacy: 86 lm/W</p> <p>LH:  LS: </p> 	<p>DIRECT SYMMETRIC</p> <p>LH - 4FT - 3500K - BLADE LOUVERS</p> <p>Lumens: 982 lm/ft Input watts: 9.8 W/ft Efficacy: 100 lm/W</p> <p>LH:  LS: </p> 
---	--	--

SAMPLE INSTALLATION - WORKSPACE

LH DOWN - 3500K

Room dimensions: 30'L x 20'W x 12'H
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Fixture length: 4 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 36 fc
Fixture spacing: 10 ft x 10 ft
Uniformity: 1.9:1 (avg/min)

TOP VIEW
30 fc: 
25 fc: 



LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+				CRI 90+			
		%	OPTICS			%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver		HE Tech™	Drop Lens	Flat Blade Louver
LH <small>(high)</small>	4000k	102.1%	1098 lm/ft	861 lm/ft	1003 lm/ft	90.2%	970 lm/ft	760 lm/ft	886 lm/ft
	3500k	100.0%	1075 lm/ft	843 lm/ft	982 lm/ft	87.3%	938 lm/ft	735 lm/ft	857 lm/ft
	3000k	96.2%	1034 lm/ft	811 lm/ft	945 lm/ft	82.4%	886 lm/ft	695 lm/ft	809 lm/ft
	2700k	92.6%	995 lm/ft	780 lm/ft	909 lm/ft	78.1%	840 lm/ft	659 lm/ft	767 lm/ft
LS <small>(standard)</small>	4000k	54.3%	584 lm/ft	453 lm/ft	528 lm/ft	48.0%	516 lm/ft	400 lm/ft	466 lm/ft
	3500k	53.2%	572 lm/ft	443 lm/ft	517 lm/ft	46.4%	499 lm/ft	387 lm/ft	451 lm/ft
	3000k	51.2%	550 lm/ft	427 lm/ft	497 lm/ft	43.8%	471 lm/ft	366 lm/ft	426 lm/ft
	2700k	49.2%	529 lm/ft	410 lm/ft	478 lm/ft	41.6%	447 lm/ft	347 lm/ft	404 lm/ft

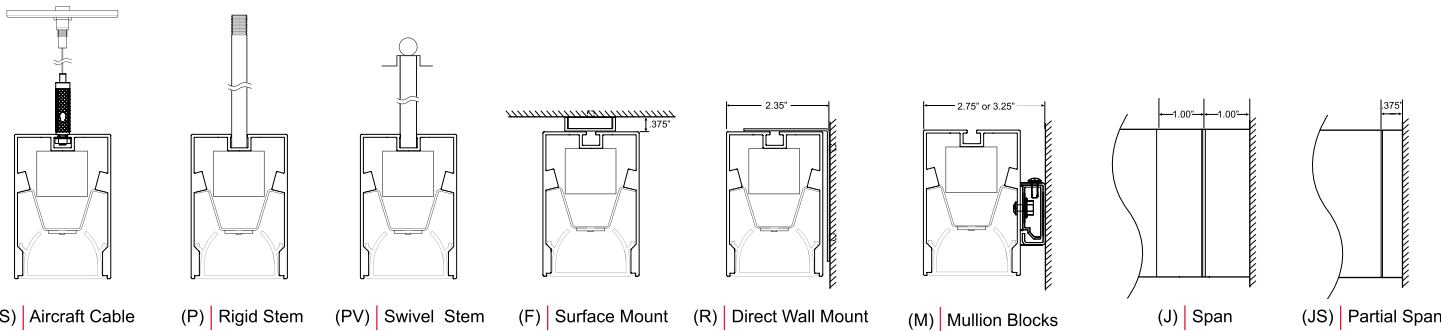
For standard output (LS) -50%.

TUNNABLE WHITE | LIGHT LOSS FACTORS (LLF)

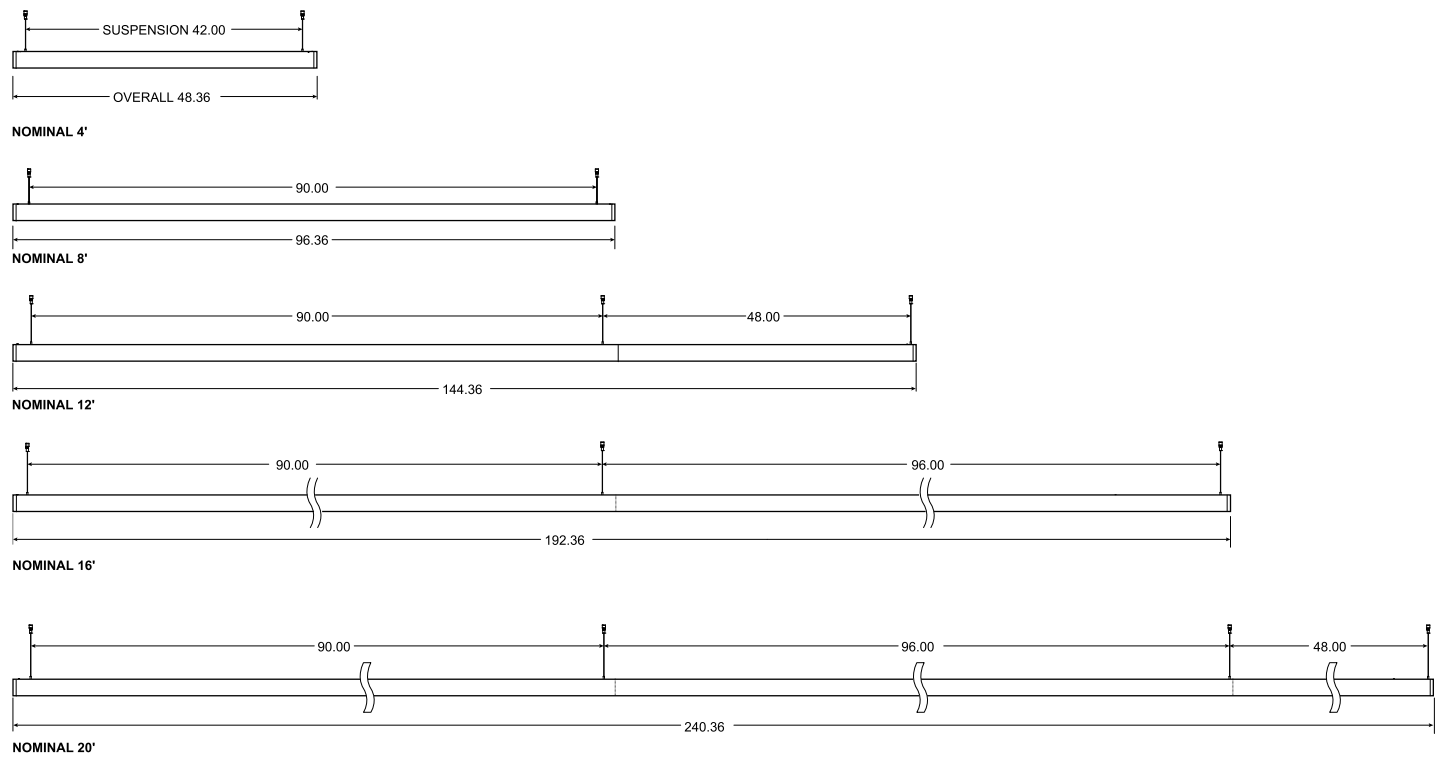
OUTPUT	CCT	CRI 80+			
		%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver
LH <small>(High)</small>	5000k	100%	890 lm/ft	727 lm/ft	847 lm/ft
	2700k	93.6%	833 lm/ft	667 lm/ft	776 lm/ft
LS <small>(Standard)</small>	5000k	100%	469 lm/ft	351 lm/ft	446 lm/ft
	2700k	93.6%	439 lm/ft	383 lm/ft	409 lm/ft

For standard output (LS) -50%. Values are applicable for Tunable White and Dim-to-warm only.

ACL3ST | MOUNTING & DIMENSIONS

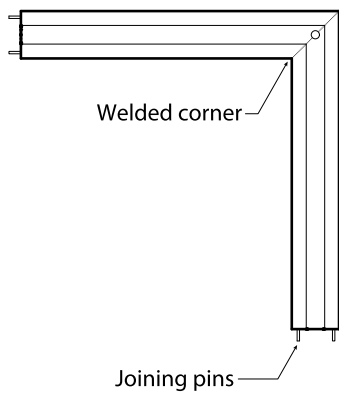


MOUNTING LENGTHS

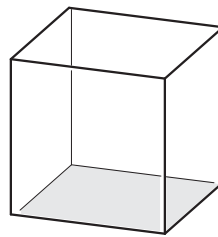


Standard dimensions shown for suspension points, all aircraft cable mounting lengths are adjustable on site.
*For nLight AIR applications: gripper needs to be at least 3.5" from the antenna. Refer to nLight dimensions section for more details.

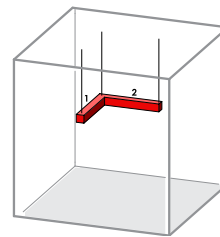
CORNER DETAIL



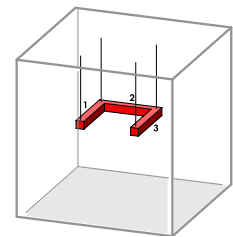
STANDARD PATTERNS



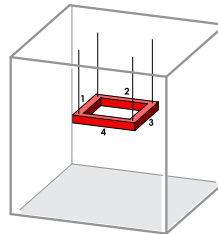
Custom Pattern*



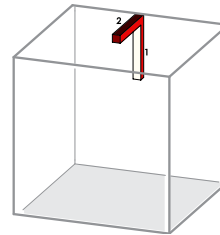
PL



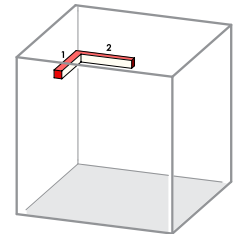
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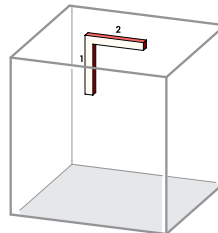
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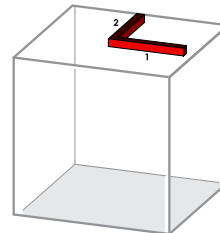
PLCW | Wall to Ceiling



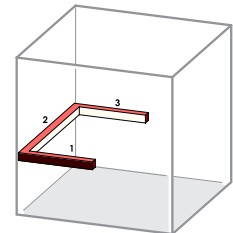
PLWW | Wall to Wall



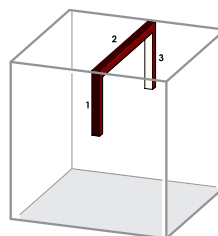
PLW | Wall Only



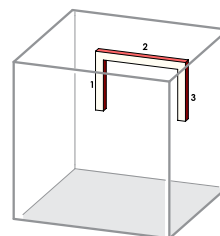
PLC | Ceiling Only



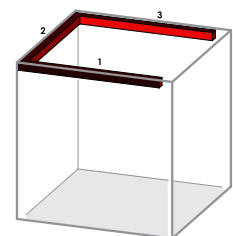
PUWW | Wall to Wall



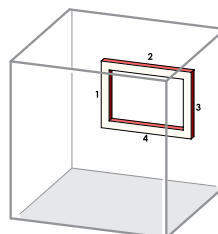
PUCW | Wall to Ceiling to Wall



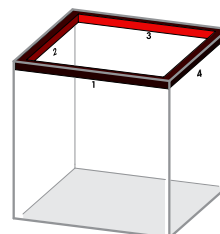
PUW | Wall Only



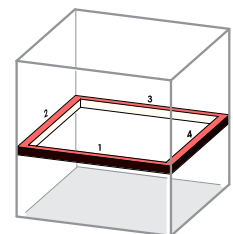
PUC | Ceiling Only



PRW | Wall Only



PRC | Ceiling Only

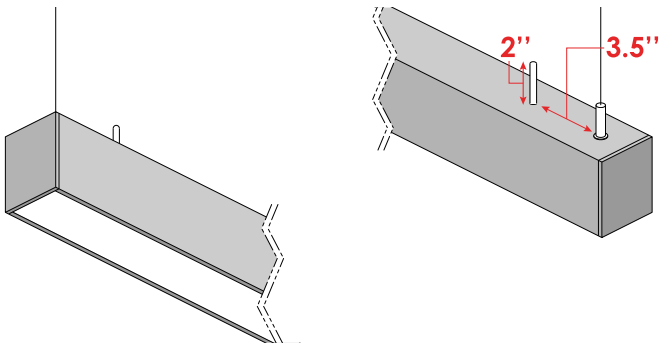


PRWW | Rectangle Wall to Wall

*Contact design assist for custom patterns.

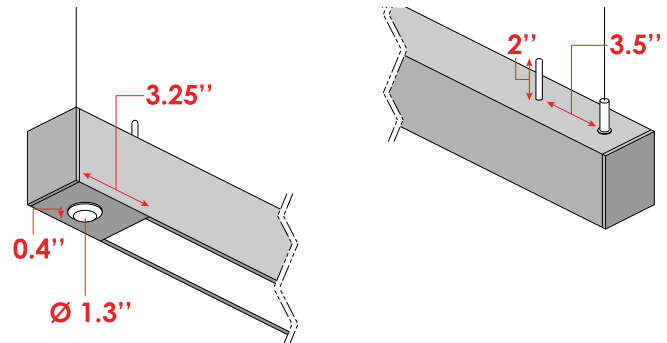
NLIGHT® DIMENSIONS

AIR : r10



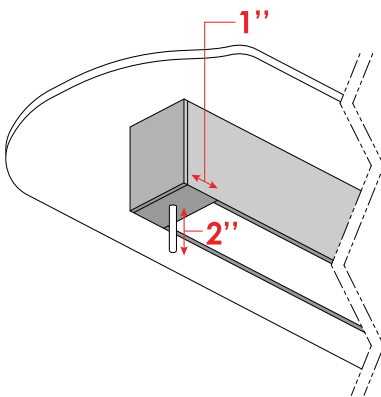
*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : res7



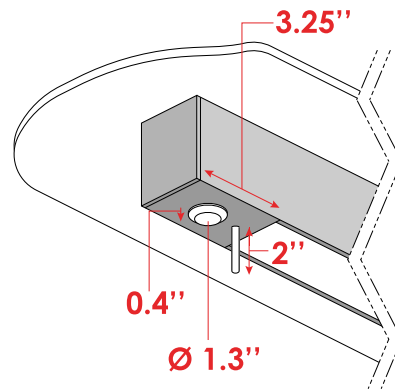
*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : r10 Surface



*Fixture mounted sensors and filler panel for nLightAIR only.

AIR : res7 Surface



*Fixture mounted sensors and filler panel for nLightAIR only.

LINEAR DIMENSIONS

Nominal length individual fixtures can be joined to create continuous row lengths.

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 inches. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions. Custom angled corners and intersections also available upon request.

Custom - Contact [Design Assist](#) for modifications to product not detailed within specification sheets.

OPTICS

He Tech™ patented high efficacy extruded diffuse acrylic lens technology with integrated opaque white reflector delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Flat Blade Louvers are used to cut down on glare and better control the light source on ACL3ST. This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control. The louvers standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

Drop Lens is a light diffuser option for ACL3ST that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1" and sits flush with the metal end caps. Once lit, the drop lens glows vividly and offers a wider diffusion pattern.

Perimeter fill - Wall wash, Wall grazer and Batwing wide for direct distributions are film optics that refract light along with an HE Tech™ extruded diffuse acrylic lens with integrated opaque white reflector.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard, and High outputs. Refer to photometry for delivered lumens. Custom output available in the range 25% to 125% of high output, contact factory.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -20°C to 50°C, maximum case temperature of 80°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency. Other available drivers include Lutron Hi-lume 1% EcoSystem LED Driver (LDE1) with Soft On, Fade to Black dimming technology; and DALI protocol drivers. Other Lutron and specialty drivers available, contact factory.

EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture. Not available in fixtures <4ft'.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

NLIGHT® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR sensors for compatibility with an nLight Air wireless system. The rLO, rES7, rMSOD, and rCMS models are available for integration.

CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nLO EZ PH, nLO EZDL CCT, nES7 and nCM are available for integration.

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

MOUNTING

Suspension with aircraft cables or pendant stems, and full or partial span mounting available.

Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length and adjustable suspension points to accommodate existing architecture, comes factory pre-installed in fixture. 4-1/2" x 4-1/2" square white canopies, unless otherwise noted. Cord strain also included for power canopies. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Rigid pendant stem-set includes 1/4" hollow white threaded rod for suspension and power feed. Factory pre-drilled power feed and tapped holes, submit dimension requirements when ordering. Standard specification length, 6" minimum. 5" square mono point white canopies, unless otherwise noted.

Swivel stem set includes 1/4" hollow white threaded rod for suspension and power feed, standard specification length, 6" in minimum. 5" in square mono point white 45-degree angle swivel stem, unless otherwise noted. Factory pre-drilled power feed and tapped holes, submit dimension requirements when ordering.

Specify if another suspension length is required. Canopies provided as required for the quantity of power feed and non-power feed locations (crossbar included). Specify if another shape, size, or color is required.

Direct wall mounting is ADA compliant. Factory pre-drilled holes can be tapped for 1/2" chase nipple, submit dimension requirements when ordering. The top groove of the fixture is used to mount the fixture and provides a firm and flexible mounting option.

Surface ceiling and wall mounting is offered with die-cast mounting blocks with sheet metal brackets used to provide a firm flexible mounting option in any orientation the system might be installed in.

Mullion blocks are used to mount fixtures to a horizontal or vertical window mullion and can also be used to offset fixtures from the wall. 1/2" and 1" offsets are available standard. Custom offsets are also available upon request. (2) Mullion blocks are provided for fixtures 8ft or less. Fixtures larger than 8ft are provided with (3) blocks. The maximum distance between (2) mounting blocks is 8ft. Power feed holes are pre-drilled and mounting hardware is pre-installed at the factory to the fixture housing. Standard mullion block center location point has a 3" distance from endcap. Submit custom dimension requirements when ordering.

Partial /Full span mounting conditions utilize special expansion joint end caps to mount fixture to the wall (blocking required) and feed power through the end cap, specify end feed location. Additional attachment hardware provided as required depending on partial span condition. Provide architectural details at time of ordering for inclusion in factory shop drawings; field verified dimensions required for full span mounting.

STRUCTURE

Robust, high quality 60% recycled aluminum extruded housing. 0.040" thick aluminum internal gear trays. Flat or flanged aluminum end caps. Aluminum joiner brackets. 2 lbs/ft approximate fixture weight.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING

UL/CUL rated for damp locations. Tested under UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

UL Wet location label available. Complies with UL definition of wet locations to prevent the accumulation of water on live parts, electrical components, other conductor not identified for use in contact with water through the provision of weep holes. Waterproof connector to be provided by others. Installing contractor responsible for properly sealing and waterproofing all mounting and power feed locations.

The ACL3ST is assembled in the U.S.A. and comply with the Buy America(n) Act (BAA) government procurement requirements under FAR, DFARS, and DOT.

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for five (5) year. LED products (LED boards and drivers) will be covered for five (5) years. Please refer to the full terms and conditions on our website.

Image Spot®



Brilliant Imaging.

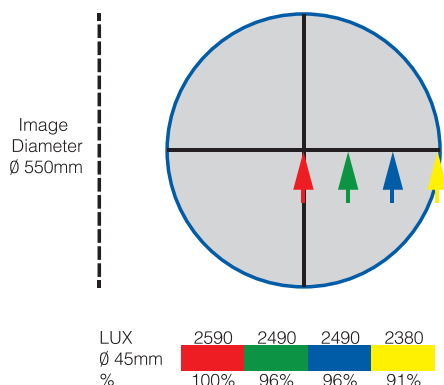
Crystal clear optics allow you to project vivid images and messaging up to 40 ft. (12m) away! Using a mere 45W of power, the Image Spot LED projector packs an amazing amount of light output from a versatile and compact design.

The cool white or warm white LEDs ensure bright imaging in virtually any environment. An available filter kit allows the Image Spot to be used to illuminate subjects in museums, themed entertainment and hospitality venues.

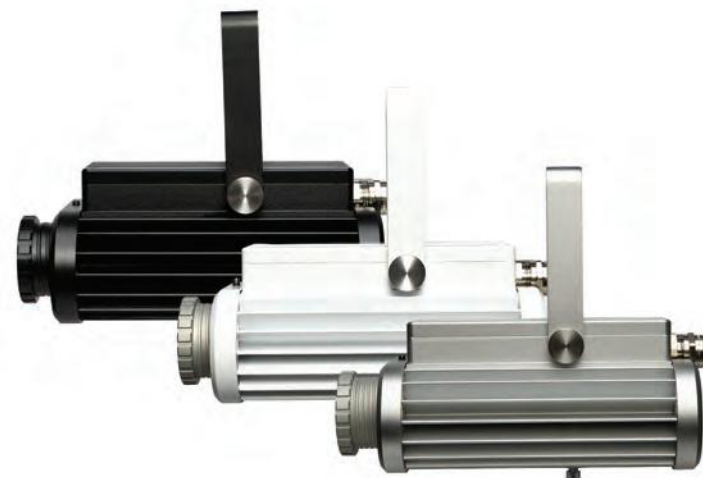


Image Spot™ HT

Superior Uniformity Across Entire Field



Project:	Type:
Quantity:	Location:



KEY FEATURES

- 40W LED array with 10°, 19°, 25° or 30° beam optics provide superb image uniformity and fringe-free shadows
- IP40 rating for indoor use or IP65 rating for outdoor use HT variant for high ambient temperature environments
- Accepts Rosco Image Spot Gobos and Permacolor Dichroic Glass Color Filters
- Available OPTI-FLECS filter packs for beam diffusion
- Accepts universal line voltage input allowing operation anywhere around the globe
- DMX512 compatibility provides flicker-free dimming throughout the range: 100% ~ 0%
- 0-10V, DMX, DALI & Push to DIM dimming options
- Passive cooling means operation is completely silent
- Standard Color Options: Black, White and Silver

Image Spot®



SPECIFICATIONS

Input Voltage:	100-277VAC (V1:100-240VAC)
Power Consumption:	45 Watts at maximum output
Color Temp. Options:	5500K or 3000K or UV
CRI:	5500K Model: 80 3000K Model: 95
Output:	5500K Model: 1300 lumens 3000K Model: 750 lumens
Lumen Maintenance:	50,000 hours at 45°C (LM-79-08)
Power Connection:	6.5 ft (2m) insulated standard (IP40) or hybrid data/mains cable (IP65) (Connectors not included.)
Data:	DMX512, 0-10V, DALI, Push DIM Options RJ45 Connector (IP40) In and thru, hybrid power & data cable (IP65)
DMX Addressing:	RDM functionality available for addressing
Dimensions:	Image Spot (including yoke): 7.8 in x 4.8 in x 6.8 in (198mm x 123mm x 172mm) Image Spot HT (including yoke): 9.3 in x 4.8 in x 6.8 in (236mm x 123mm x 172mm)
Weight:	Image Spot: 5.5 lbs (2.5 kg) Image Spot HT: 5.9 lbs (2.7 kg)
Operating Temp.:	Image Spot: -13° to 104° F (-25° to 40° C) Image Spot HT: -13° to 122° F (-25° to 50° C)
Humidity:	0 - 95% non-condensing
Housing:	Anodized Aluminum Extrusion
Approvals:	ETL / UL Standards #62368-1 and #60950-22 cETL / CSA C22.2 #62368-1 and #6095-22 CE IP40 Rated (indoor use) or IP65 Rated (outdoor use)

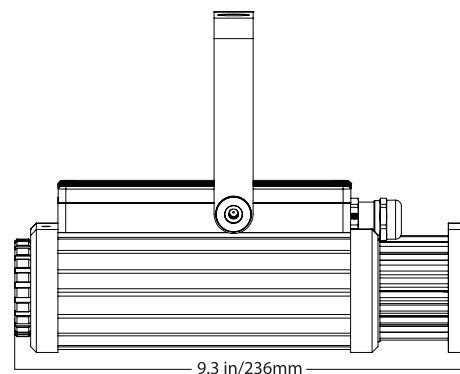
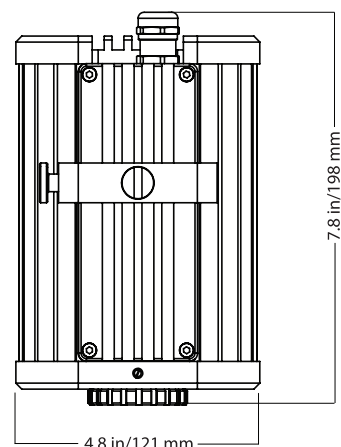
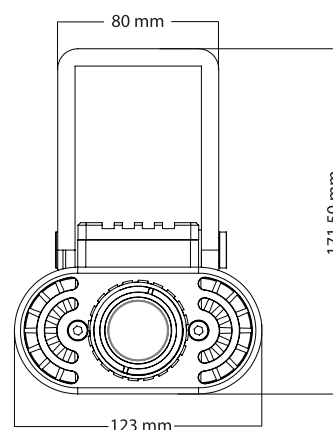
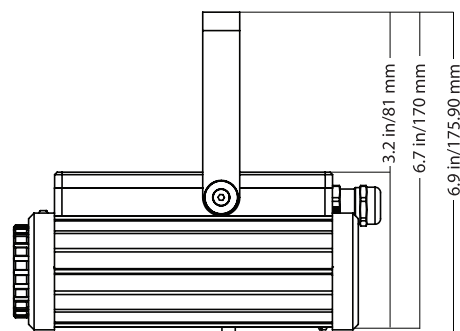


Image Spot® HT



SPECIFICATION ORDER CODES

UNIT	CCT	Finish	Data Transfer	Mounting	Lens	Optional Accessory
Image Spot ST Image Spot IP Image Spot HT	3 - 3000K 5 - 5500K U - UV O - Custom*	B - Black W - White S - Silver C - Custom RAL	A - DMX/RDM, RJ45 (IP40 Only) B - DALI, RJ45 (IP40 Only) C - Push DIM, RJ45 (IP40 Only) 0 - 0/10V, No Connector 1 - DMX/RDM, No Connector 2 - DALI, No Connector 3 - Push to DIM, No Connector	F - Full Yoke Y - Track Mount L - Floor Mount W - Wall Mount C - Ceiling Mount P - Pole Mount N - N/A	T - 10 degree 1 - 19 degree 2 - 25 degree 3 - 30 degree N - No Lens	S - Snoot N - N/A

Example:

ImageSpot ST — 3 — B — 1 — F — T — N

ie. ImageSpot ST-3B1FTN =

Image Spot Standard, 3000K CCT, Black, DMX/RDM, No Connector, Full Yoke, 10 degree Lens, with no additional accessories.

*Custom color temperature available with minimum order quantity, price difference and longer lead time. For more information please contact Project.Management@Rosco.com

Name: _____ Date: _____

Company Name: _____

Project: _____

Image Spot® Accessories

Item Code	Description
296 00001 0013	Image Spot OPTI-FLECS Filter Pack
296 00001 0052	Image Spot Lens Cover Kit
296 00001 0017	Image Spot USB to RJ45 Programming Cable
296 00001 0011	Image Spot USB to RS485 Programming Cable
296 00001 0012	Image Spot Safety Cable, 3ft (1m)
296 00000 5001	Rosco Pole Mount Accessory - Black
296 00000 5002	Rosco Pole Mount Accessory - White
296 00000 5003	24" Stainless Steel Strap Rosco Pole Mount Kit - 3-Pack
296 00000 5004	Rosco Wall Mount Accessory - Black
296 00000 5005	Rosco Wall Mount Accessory - White

Image Spot Gobos & Permacolor Filters

For optimum image quality and performance, use Rosco Image Spot Gobos and Permacolor Filters, which feature custom bezels that enable a secure fit inside the Image Spot gobo cassette.

Image Spot® Gobos

Item Code	Description
Standard Gobos	
XXXXX-SPOT	Image Spot Standard Gobo XXXXX = The five digit standard gobo number
Custom Gobos	
250 7210I SPOT	Image Spot Custom Steel Gobo
260 CUSBW OSPO	Image Spot Custom B&W Glass Gobo
260 CUS1C OSPO	Image Spot Custom One-Color Glass Gobo
260 CUS2C OSPO	Image Spot Custom Two-Color Glass Gobo
260 CUSMC OSPO	Image Spot Custom Multi-Color Glass Gobo

Permacolor™ Dichroic Filters

Item Code	Description
1203 XXXX SPOT	Image Spot Permacolor Dichroic Glass Filter XXXX = the four digit color number (includes bezel to fit inside gobo cassette)

RISE™

OVERVIEW • SPECIFICATIONS • ORDERING INTERIOR + EXTERIOR | F080 SINGLE

DATE	PROJECT	FIRM	TYPE
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RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F080 SINGLE IS A POWERFUL AND COMPACT LED LIGHT FIXTURE, DELIVERING UP TO 1170 LUMENS, THAT CAN BE USED IN SPOT, ACCENT, LANDSCAPE AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AIMABILITY USING ONLY ONE TWIST.

FEATURES :

- POWERFUL CBCP
- EXTREMELY COMPACT
- POWERFUL OUTPUT UP TO 1170 LUMENS
- MACRO™ LOCK - 180° TILT AND 360° PAN
- 12 UNIQUE BEAM ANGLES
- MULTIVOLT (110 V-277 V)
- 8 CCTS: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED



FIXTURE MODEL	FIXTURE CONFIG.	POWER/ LUMEN OUTPUT*	CCT/ COLOR	CRI	BEAM ANGLE	FINISHES	ACCESSORIES	WIRING AND MOUNTING
F080	1S - Single Head	LO - Low Output MO - Medium Output HO - High Output	22 - 2200K 25 - 2500K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K 65 - 6500K RD - Red GR - Green BL - Blue AM - Amber *2200K and 2500K not available in 40°, 60°, 70° and 90°	8 - 80 9 - 90° X - For RD, GR, BL, AM *90 CRI not available in 2200K, 2500K, 5000K, and 6500K	05 - Laser Spot (5°) 10- Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Medium Flood (60°) 70 - Wide Flood (70°) 90 - Very Wide Flood (90°) E1 - Elliptical 1 (15°x60°) E2 - Elliptical 2 (30°x60°) E3 - Elliptical 3 (60°x15°) E4 - Elliptical 4 (60°x30°)	K - Black Z - Bronze S - Silver W - White C - Custom* *Provide RAL #	X - No Accessory H - Half Snoot F - Full Snoot Will ship as X if not specified	A - 19" Flying Leads - Internal Cable IC; Bottom Exit; 1/2" NPT ; UL/CE Listed B* - 10' External Cable Side Exit; Surface Mount ; UL Listed C* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT ; UL Listed D* - 10' External Cable Side Exit; Surface Mount ; CE Listed E* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT; CE Listed *Will ship as A if not specified

EXAMPLE: F080-1S-LO-22-8-05-S-X-A

*See Photometry Chart for Lumen Data

PERFORMANCE	WATTS	POWER	LUMEN OUTPUT	OPTIC	EFFICACY	CBCP
	4	Low Output	309	5°	77	22,017
	7.5	Medium Output	531	5°	71	37,812
	11.5	High Output	744	5°	65	52,991

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX
COLOR CONSISTENCY
LUMEN DEPRECIATION

80+, 90+ 3-STEP MACADAM ELLIPSE					
	WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
LOW	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
MEDIUM	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
HIGH	>60,500* >(181,000)**	>36,300* >(69,800)**	>60,500* >(69,800)**	>60,500* >(69,800)**	>33,200* >(69,800)**

* ENERGY STAR REPORTED TESTING HOURS TO DATE. CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR
** ESTIMATED HOURS

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

ECOSENSE®

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LOS ANGELES, CA 90012

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1/4

20220825

HARTRANFT LIGHTING DESIGN

DATE	PROJECT	FIRM	TYPE
ELECTRICAL	WATTAGE POWER FACTOR THD OPERATING VOLTAGE DRIVER STARTUP TEMPERATURE OPERATING TEMPERATURE STORAGE TEMPERATURE	LOW OUTPUT = 4 W; MEDIUM OUTPUT = 7.5 W; HIGH OUTPUT = 11.5 W >0.9 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) <0.2 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) MULTIVOLT: 110-277 VAC, 50/60 Hz INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 176 °F (-40 °C TO 80 °C)	
CONTROL	DIMMING	110-277 VAC, ELV TYPE, REVERSE PHASE, TRAILING EDGE	
PHYSICAL	DIMENSIONS HOUSING/LENS WEIGHT ENVIRONMENT MOUNTING OPTIONS WIRING TOOLS WIND LOAD (EPA) CORROSION RESISTANT	W 2.49" x H 8.13" x L 6.97" ; (63.33 mm x 206.45 mm x 177.05 mm) EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS 1.25 LBS / 0.56 KG OUTDOOR • UL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 MEETS 3G ANSI C136.31 VIBRATION STANDARD FOR BRIDGE APPLICATIONS A - FLYING LEADS - INTERNAL CABLE IC; BOTTOM EXIT; 1/2" NPT ; UL/ CE RATED B - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; UL LISTED SURFACE MOUNT PLATE INCLUDED C - EXTERNAL CABLE BOTTOM EXIT; 1/2" NPT ; UL LISTED SURFACE MOUNT PLATE INCLUDED D - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED E - EXTERNAL CABLE BOTTOM EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED LENGTH OF FLYING LEADS 19" (482.6 mm) LENGTH OF EXTERNAL CABLE 10' (3.05 m) 2.5 mm HEX KEY AND PHILLIPS #0 SCREWDRIVER FOR INTERCHANGEABLE LENS + SNOOTS 4 mm HEX KEY FOR AIMING 5 mm HEX KEY FOR MAIN TILT ARM EFFECTIVE PROJECTED AREA 0.14 ft² RISE HAS A HIGH-PERFORMING, CORROSION-RESISTANT FINISH THAT USES HIGH DURABILITY TRIGLYCIDYL ISOCYANURATE (TGIC) POWDER COATINGS SPECIFICALLY DESIGNED FOR NATATORIUMS AND EXTERIOR WEATHER EXPOSURE. THIS FINISH HAS BEEN TESTED AND APPROVED TO MARINE GRADE CORROSION RESISTANCE STANDARD IN UL1598A, ASTM B117 SALT FOG TEST FOR 200 HOURS.	

FIXTURE RATING & CERTIFICATIONS	CE, UL CERTIFIED RoHS COMPLIANT, IK10	   
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LIMITED WARRANTY 5 YEARS

0-10V CONTROL OPTIONS

100-120 VAC / 277 VAC Linear Dimming Control Module 0-10 V - Plenum Rated LDCM-PL-120-277-010V-GR
All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES

Snoots

Half Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-H-(K,Z,S,W,C)
Full Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-F-(K,Z,S,W,C)

Interchangeable Lens

If inner optic = 5°,
Desired angleorder the following spread lens
5 Degree F080-LENS-05
10 Degree F080-LENS-10
15 Degree F080-LENS-15
20 Degree F080-LENS-20
40 Degree F080-LENS-40
60 Degree F080-LENS-60
80 Degree F080-LENS-80
15x60 or 60x15 Degree F080-LENS-E1E3
30x60 or 60x30 F080-LENS-E2E4
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 80, 15x60 or 60x15, 30x60 or 60x30) F080-LENS-FULLSET

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/raise for the most updated information.

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RISE™

OVERVIEW • SPECIFICATIONS • ORDERING INTERIOR + EXTERIOR | F080 SINGLE

DATE	PROJECT	FIRM	TYPE
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If inner optic = 40°,		Order the following spread lens	
Desired angle			
5 Degree			NOT SUPPORTED
10 Degree			NOT SUPPORTED
15 Degree			NOT SUPPORTED
20 Degree			NOT SUPPORTED
40 Degree			F080-LENS-10
60 Degree			F080-LENS-40
70 Degree			F080-LENS-60
90 Degree			F080-LENS-80
15x60 or 60x15 Degree			NOT SUPPORTED
30x60 or 60x30 Degree			NOT SUPPORTED
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 70, 90, 15X60 or 60X15, 30X60 or 60X30)			F080-LENS-FULLSET

Honeycomb Louver	
Honeycomb Louver F080	F080-LV-HComb

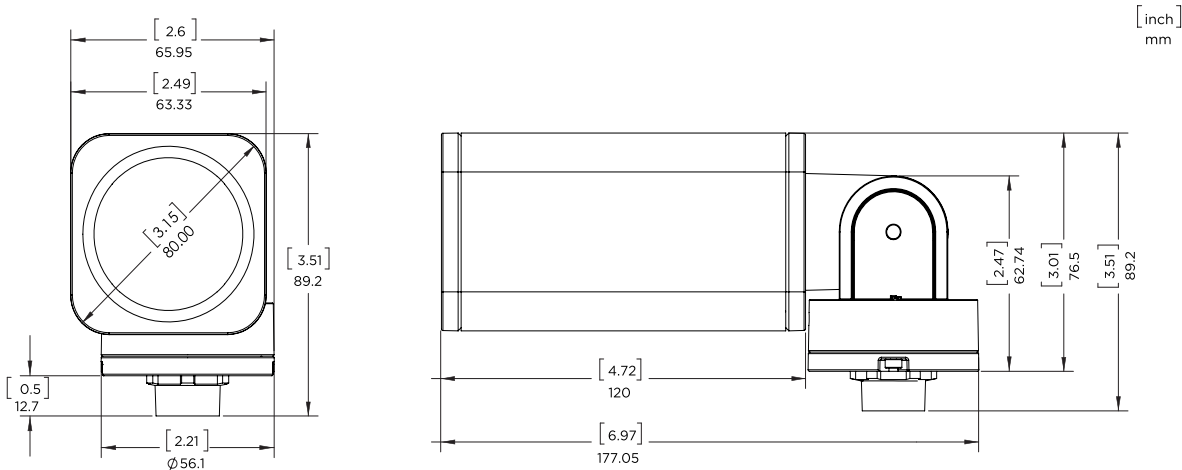
Canopy Plate (Not for use with wire Option B - External Cable Side Exit)	
RISE Canopy Plate (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	RISE-CANOPY-04-(K,Z,S,W,C)

Color Filters	
Red	F080-FILTER-RED
Blue	F080-FILTER-BLUE
Green	F080-FILTER-GREEN
Amber	F080-FILTER-AMBER

F080 Wall Mount Arm (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)	
Wall Mount Arm, 6 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-06-(K,Z,S,W,C)
Wall Mount Arm, 12 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-12-(K,Z,S,W,C)
Wall Mount Arm, 18 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-18-(K,Z,S,W,C)
Wall Mount Arm, 24 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-24-(K,Z,S,W,C)

Ground Stake (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)	
Landscape Stake, 12 in (for use with F080 Single Head only, not for use with multi-fixture units)	F080-LS-1S-STK-12

DIMENSIONS



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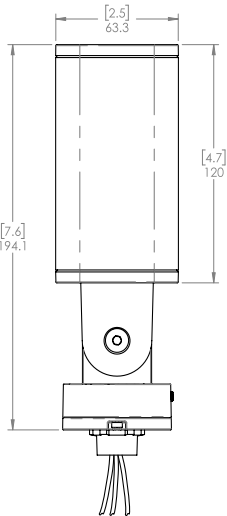
RISE™

OVERVIEW • SPECIFICATIONS • ORDERING			INTERIOR + EXTERIOR F080 SINGLE	
DATE	PROJECT	FIRM	TYPE	

WIRING GUIDE

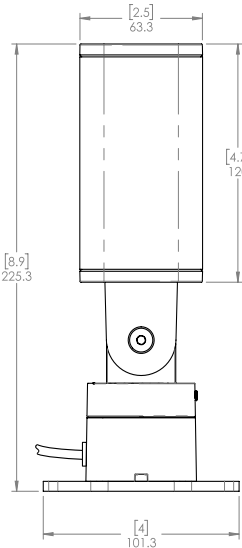
RISE is and exterior rated (IP66) fixture that is available in three different wiring options:

Flying Leads - Internal Cable
(UL Listed or CE Listed)



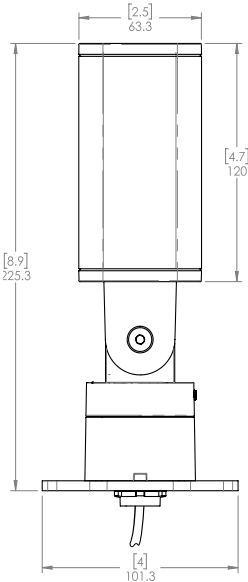
- For use with standard junction boxes
- 1/2" NPT Taper, Cable Length is 19"
- Compatible with EcoSense Canopy junction Box Cover
- 18 AWG Stranded Copper Cable - 3 Conductors

External Cable Side Exit
(UL Listed or CE Listed)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the side of the base
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

External Cable Bottom Exit
(UL Listed or CE Listed)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the bottom for use with various accessories such as Wall Mount Arm and Ground Stake
- 1/2" NPT taper for mounting
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

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DATE	PROJECT	FIRM	TYPE
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THE L50 INCLUDES PATENTED OPTICAL DESIGN THAT DELIVERS THE WIDEST RANGE OF BEAM ANGLE OPTIONS FOR PRECISE COVE, WALL GRAZING, WALL WASHING OR LINE OF LIGHT APPLICATIONS. EXCLUSIVE FLIP TO FLAT™ HINGE DESIGN PROVIDES FLEXIBILITY WHEN MANAGING SMALL COVE DETAILS. TROV OFFERS SMOOTH, FLICKER FREE DIMMING DOWN TO 0%.

FEATURES :

- DIM TO 0%, ELV REVERSE PHASE
- 24 BEAM ANGLES
- MULTI-VOLT
- FLIP TO FLAT™
- 6 CCT OPTIONS
- 80+ AND 90+ CRI OPTIONS
- IP54 INTERIOR AND IP66 EXTERIOR OPTIONS



MODEL/ SIZE	INTERIOR/ EXTERIOR	LENGTH	POWER	CCT	CRI	VOLTAGE	OPTICS
L50	I E	12" 48"	2 4 6 8 10 12	WHITE CCT 22 27 30 35 40 50	MONO COLOR GR**** BL AM RD***	80+ 90* Blank For Color	MULTI-VOLT (120-277V) GRAZING 9 x 9 9 x 17 9 x 29 9 x 59 15 x 15 15 x 23 15 x 35 15 x 65 COVE 120** Asym LINE OF LIGHT LOL WASHING 25 x 25 25 x 33 25 x 45 25 x 75 39 x 9 55 x 25 40 x 40 40 x 48 40 x 60 40 x 90 45 x 15 70 x 40 70 x 70

EXAMPLE: L50-I-48-10-27-90-MULT-15x65 *90 CRI not available in 2200K or 5000K **120 is only available with Exterior option. See L35 spec sheet for interior cove options. ***Red is not available in 12W or 10W. ****Green is not available in 12W.

PERFORMANCE	WATTS	OPTIC	LUMEN OUTPUT	EFFICACY
	2W	LOL	85 lm/LF (278 lm/m)	42 lm/W
	4W	LOL	208 lm/LF (684 lm/m)	52 lm/W
	6W	LOL	332 lm/LF (1089 lm/m)	55 lm/W
	8W	LOL	462 lm/LF (1517 lm/m)	58 lm/W
	10W	LOL	560 lm/LF (1837 lm/m)	56 lm/W
	12W	LOL	651 lm/LF (2136 lm/m)	54 lm/W

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX	80+, 90+
COLOR CONSISTENCY	2-STEP MACADAM ELLIPSE
LUMEN DEPRECIATION / RATED LIFE	WATTS L70 @ 25C L70 @ 50C L90 @ 25C L90 @ 50C
	2W-12W >150,000 >70,000 >50,000 >25,000

* CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

ELECTRICAL

POWER CONSUMPTION

MAX FIXTURE RUN LENGTH

POWER FACTOR

OPERATING VOLTAGE

DRIVER

STARTUP TEMPERATURE

OPERATING TEMPERATURE

STORAGE TEMPERATURE

2W*/LF (6.6W/M) ; 4W/LF (13.2W/M) ; 6W/LF (19.8W/M) ; 8W/LF (26.4W/M) ; 10W/LF (33W/M) ; 12W/FL (39.6W/M)
* 3W/LF (9.9W/M) at 220V -277V

	2W/LF		4W/LF		6W/LF		8W/LF		10W/LF		12W/LF	
Volts	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'
120	214	214	186	186	152	152	114	114	91	91	76	76
220	374	392	340	340	277	277	209	209	95	167	95	139
277	374	494	374	428	349	349	263	263	95	190	95	175

4W, 6W, 8W, 10W, 12W >0.9, 2W<0.9

MULTIVOLT: 110-277VAC, 50/60 Hz

INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS

-40°F TO 122°F (-40°C TO 50°C)

-40°F TO 122°F (-40°C TO 50°C)

-40°F TO 176°F (-40°C TO 80°C)

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TRÖV®

OVERVIEW • SPECIFICATIONS • ORDERING INTERIOR + EXTERIOR | L50 LOL

DATE	PROJECT	FIRM	TYPE
CONTROL	DIMMING	110-277VAC, ELV TYPE 0.07%-100%, REVERSE PHASE, TRAILING EDGE ETC control systems require 0-10V control using EcoSense LDCM. TROV will not work with ETC phase dimmers.	
PHYSICAL	DIMENSIONS HOUSING /LENS WEIGHT CONNECTORS ENVIRONMENT BEAM ANGLE MOUNTING OPTIONS	W 1.6" x H 2" x L 12"/48" ; (41.6mm x 50.5mm x 304.7mm/1201mm) EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS; PLASTIC ENDCAPS RUBBER OVERMOLD FOR CABLE ASSEMBLY 1.52LBS / 0.69KG (1FT) ; 4.95LBS / 2.25KG (4FT) INTEGRAL MALE/ FEMALE CONNECTORS INDOOR • ETL CERTIFIED FOR DRY/DAMP LOCATIONS IP54 OUTDOOR • ETL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 Not intended to be used in water features such as waterfalls, fountains, etc. GRAZING, WASHING, COVE, ASYMMETRIC, LINE OF LIGHT INTEGRAL MOUNTING AND ADJUSTABLE AIMING FROM 0°-180° IN 15° INCREMENTS	
FIXTURE RATING & CERTIFICATIONS	CE, ETL CERTIFIED RoHS COMPLIANT RCM CERTIFIED	<div><div></div><div>Title 24 JA8-2016 *90 CRI models only</div></div>	
LIMITED WARRANTY	5 YEARS		

WIRING OPTIONS (MVOLT): 110-277VAC

Power Cable Assembly, TROV, Leader/Jumper, 10 foot.....	CBL-3P-L-UNV-10*
Power Cable Assembly, TROV, Leader/Jumper, 50 foot.....	CBL-3P-L-UNV-50*
Power Cable Assembly, TROV, Jumper, 5 foot.....	CBL-3P-L-UNV-05**
Power Cable Assembly, TROV, Jumper, 1 foot	CBL-3P-L-UNV-01**
Power Cable Assembly, TROV, Male and Female terminator caps.....	CBL-3P-L-UNV-CAPS

*Two (2) terminators are included with the 10' and 50' power cable. One Leader need per circuit/fixture run. Cables are not plenum rated.
** If using the 5' or 1' power cable assembly as a leader to power a run, one set of CBL-3P-L-UNV-CAPS will also be needed per cable.

0-10V CONTROL OPTIONS

100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated	LDCM-PL-120-277-010V-GR
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All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES

Mounting

Mounting Track and Clips Set, 48 Inch Track, 8 Clips.....	MNT-L-TRKCLIP-48	48" track and clips set will work with one 48" fixture or four 12" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track and Clips Set, 12 Inch Track, 2 Clips.....	MNT-L-TRKCLIP-12	12" track will not work with 48" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track Clip, TROV, Set of 2.....	MNT-L-CLIP	Clips needed = 12" fixtures need 1 set of 2 and 48" fixture needs 2 sets of 2.
90 Degree L bracket, TROV, Set of 2.....	MNT-L-LBKT	L-Brackets needed = 12" fixtures need 1 set of 2 and 48" fixture needs 1 set of 2.
Angle Locking Clip, TROV, Pack of 10.....	MNT-L-ANGLOCK	Angle Locks needed = 12" fixtures need 1 and 48" fixtures need 2. (Must order separately)
Mounting, Fine Adjustment Bracket, TROV	MNT-L-FAB	Fine Adjustment Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment Bracket is highly recommended for Grazing Optics.		
Mounting, Fine Adjustment L-Bracket, TROV	MNT-L-LFAB	Fine Adjustment L-Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment L-Bracket is recommended for Asymetric Optics when aiming is needed.		

Snap-on Lenses

Snap-on Lens, Frosted, 12 inch, L50	LENS-L50-FROST-12	Snap-on Lenses need = One 12" lens is needed per 12" fixture and one 48" lens is needed per 48" fixture. Snap on Lenses will not work with the asymmetric fixture. Clear lenses can be used to hold colored filters to customize the output color of any TROV fixture, except the ASYM. Color filters supplied by others.
Snap-on Lens, Frosted, 48 inch, L50	LENS-L50-FROST-48	
Snap-on Lens, Clear, 12 inch, L50	LENS-L50-CLEAR-12	
Snap-on Lens, Clear, 48 inch, L50	LENS-L50-CLEAR-48	

Wall Mount Arm

Wall Mount Arm, 6 inch, TROV	WMA-L-CA-06	Wall Mount Arms needed = For individual fixture installations two arms and one end set will be needed per fixture. For continuous run installation one end set will be needed per run. Each end set contains one left and one right end plate. One joining set will be needed per joint. One arm per fixture will be needed plus one extra arm to complete the run. For example: A 10ft run made with two 4ft and two 1ft fixtures will contain; 1 x WMA-L-END, 3 x WMA-L-JNR, and 5 x WMA-L-CA-12. Leader cables are not included with wall mount arms, end sets, or joiners sets.
Wall Mount Arm, 12 inch, TROV	WMA-L-CA-12	
Wall Mount Arm, 18 inch, TROV	WMA-L-CA-18	
Wall Mount Arm, 24 inch, TROV	WMA-L-CA-24	
Wall Mount Arm End Plate Set, TROV, Includes Left and Right.....	WMA-L-END	
Wall Mount Arm Joiner Plate, TROV	WMA-L-JNR	

Louvers

Louver, Asymmetric, 12 inch, L50	LV-L50-ASYM-12	Louvers Needed = One 12" louver is needed per 12" fixture and one 48" louver is needed per 48" fixture. 48" louver is made up of four 12" louvers. Louvers cannot be used with the asymmetric fixture
Louver, Asymmetric, 48 inch, L50	LV-L50-ASYM-48	
Louver, Symmetric, 12 inch, L50	LV-L50-SYM-12	
Louver, Symmetric, 48 inch, L50	LV-L50-SYM-48	
Louver, Honeycomb, 12 inch, L50	LV-L50-HCOMB-12	
Louver, Honeycomb, 48 inch, L50	LV-L50-HCOMB-48	

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TROV®

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INTERIOR + EXTERIOR | L50 LOL

DATE

PROJECT

FIRM

TYPE

OPTIONAL ACCESSORIES

Masking Plates

Masking Plate, 3 inch high, 12 inch, L50 & L35 MP-L50-3H-12
 Masking Plate, 3 inch high, 48 inch, L50 & L35 MP-L50-3H-48

Masking Plates needed = One 12" plate is needed per 12" fixture and one 48" plate is needed per 48" fixture.

Landscape Stake

Landscape Stake, 6 inch, TROV, Set of 2 LS-L-STK-06
 Landscape Stake, 12 inch, TROV, Set of 2 LS-L-STK-12
 Landscape Stake, 18 inch, TROV, Set of 2 LS-L-STK-18

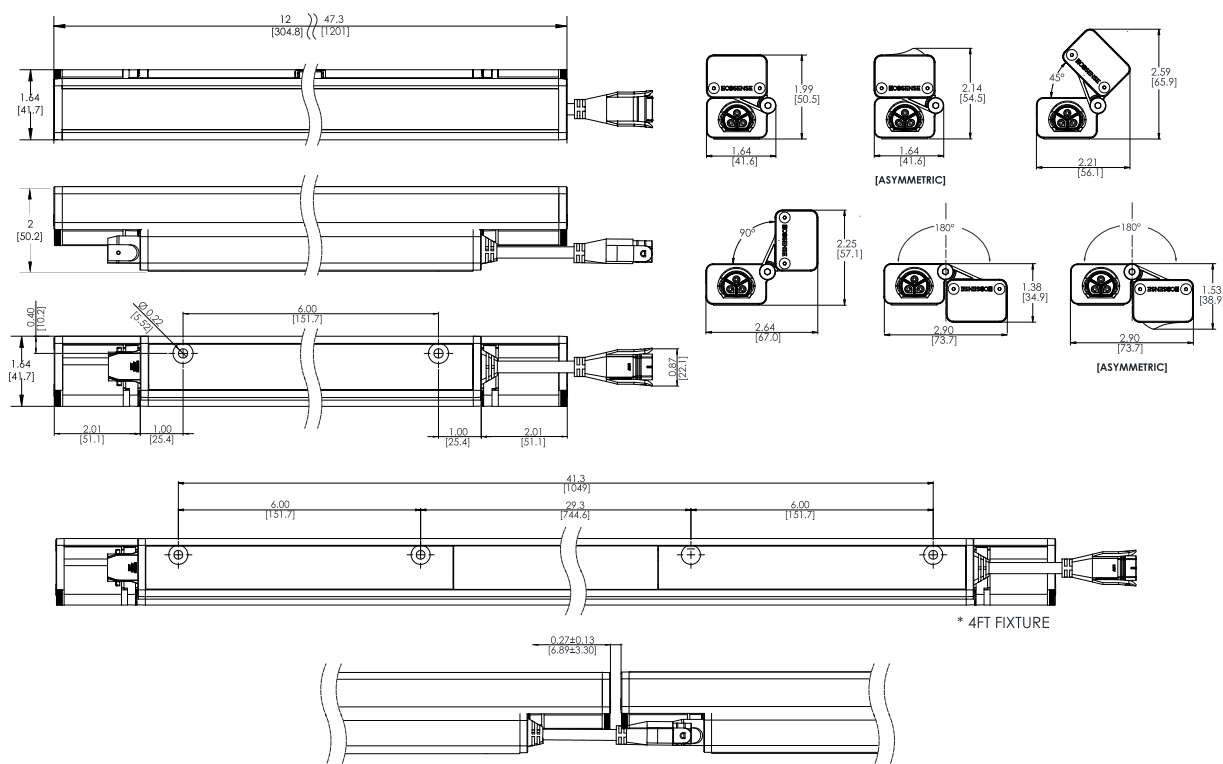
Landscape Stakes needed = 12" and 48" fixtures both need one set of 2.

Wire Box

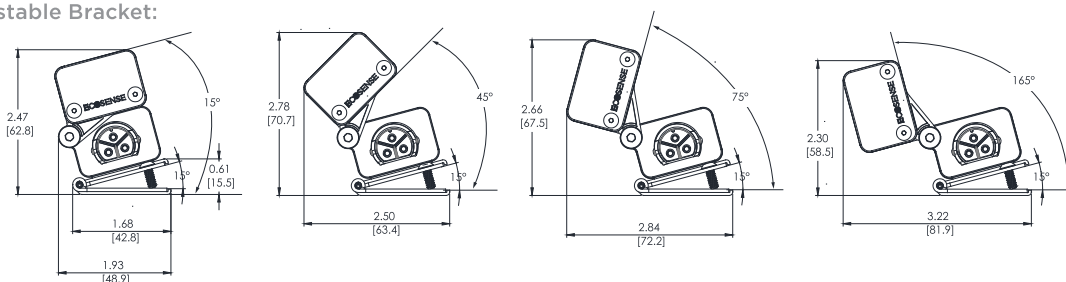
Conduit Connection, Wire Box, TROV, Interior Only, L50 CC-L-WIREBOX

Wire box can be used instead of a leader cable to start a run. 1/2" conduit fitting can attach directly to the box on one end and the fixture to the other.

DIMENSIONS + MOUNTING



Fine Adjustable Bracket:



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